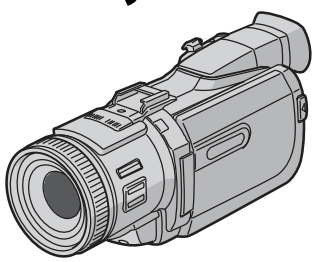
JVC

SERVICE MANUAL

DIGITAL VIDEO CAMERA

GR-DV4000Ex, GR-DV4000EY, GR-DV4000Ez, GR-DV4000EK



Mini DV PAL

DSC DIGITAL STILL CAMERA

For disassembling and assembling of MECHANISM ASSEMBLY, refer to the SERVICE MANUAL No.86700(MECHANISM ASSEMBLY).

SPECIFICATIONS *(The specifications shown pertain specifically to the model GR-DV4000EK.)*

Camcorder

For General

Power supply	:	DC 6.3 V (Using AC Power Adapter/Charger) DC 7.2 V (Using battery pack)
Power consumption		
LCD monitor off, viewfinder on	:	Approx. 3.8 W
LCD monitor on, viewfinder off	:	Approx. 4.9 W
Dimensions (W x H x D)	:	74.5 mm x 91 mm x 198 mm (with the LCD monitor closed and the viewfinder pushed back in)
Weight	:	Approx. 660 g (without cassette, memory card and battery) Approx. 740 g (incl. cassette, memory card and battery)
Operating temperature	:	0°C to 40°C
Operating humidity	:	35% to 80%
Storage temperature	:	–20°C to 50°C
Pickup	:	1/4" CCD
Lens	:	F 1.2, f = 3.8 mm to 38 mm, 10:1 power zoom lens
Filter diameter	:	ø52 mm
LCD monitor	:	3.5" diagonally measured, LCD panel/TFT active matrix system
Viewfinder	:	Electronic viewfinder with 0.24" colour LCD
Speaker	:	Monaural

For Digital Video Camera

Format	:	DV format (SD mode)
Signal format	:	PAL standard
Recording/Playback format	:	Video : Digital component recording Audio : PCM digital recording, 32 kHz 4-channel (12-bit), 48 kHz 2-channel (16-bit)
Cassette	:	Mini DV cassette
Tape speed	:	SP: 18.8 mm/s LP: 12.5 mm/s
Maximum recording time (using 80 min. cassette)	:	SP: 80 min. LP: 120 min.

For Digital Still Camera

Storage media	:	SD Memory Card/MultiMediaCard
Compression system	:	Still image : JPEG (compatible) Moving image : MPEG4 (compatible)
File size		
Still image	:	4 modes (1600 x 1200 pixels/1280 x 960 pixels/1024 x 768 pixels/640 x 480 pixels)
Moving image	:	2 modes (240 x 176 pixels/160 x 120 pixels)
Picture quality	:	2 modes (FINE/STANDARD)
Approximate number of storable images	:	☞ pg. 39

For Connectors

S		
S-Video input	:	Y: 0.8 V to 1.2 V (p-p), 75 Ω, analogue C: 0.2 V to 0.4 V (p-p), 75 Ω, analogue
S-Video output	:	Y: 1.0 V (p-p), 75 Ω, analogue C: 0.29 V (p-p), 75 Ω, analogue
AV		
Video input	:	Y: 0.8 V to 1.2 V (p-p), 75 Ω, analogue
Video output	:	Y: 1.0 V (p-p), 75 Ω, analogue
Audio input	:	300 mV (rms), 50 kΩ, analogue, stereo
Audio output	:	300 mV (rms), 1 kΩ, analogue, stereo
EDIT	:	ø3.5 mm, 2-pole
Headphone output	:	Stereo
DV		
Input/output	:	4-pin, IEEE 1394 compliant
USB	:	5-pin

AC Power Adapter/Charger

For General

Power requirement	:	AC 110 V to 240 V~, 50 Hz/60 Hz
Power consumption	:	23W
Output		
Charge	:	DC 2.7V ⎓, 1.2 A
VTR	:	DC 3.6V ⎓, 1.8 A

Specifications shown are for SP mode unless otherwise indicated. E & O.E. Design and specifications subject to change without notice.

GR-DV4000EK M3D6L7
GR-DV4000EX M3D6L7
GR-DV4000EY M3D6L7
GR-DV4000EZ M3D6L7

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DIFFERENT LIST

DIFFERENT TABLE OF FEATURE

The following table indicate main different points between models GR-DV4000EK, GR-DV4000EX, GR-DV4000EY and GR-DV4000EZ.

ITEM \ MODEL	GR-DV4000EK	GR-DV4000EX	GR-DV4000EY	GR-DV4000EZ
AC ADAPTER CHARGER	AA-V40EK	AA-V40EG	←	←
QUEST CARD (REGIST.CARD)	USED	NOT USED	←	←

Notes: Mark ← is same as left.

Important Safety Precautions

Prior to shipment from the factory, JVC products are strictly inspected to conform with the recognized product safety and electrical codes of the countries in which they are to be sold. However, in order to maintain such compliance, it is equally important to implement the following precautions when a set is being serviced.

●Precautions during Servicing

1. Locations requiring special caution are denoted by labels and inscriptions on the cabinet, chassis and certain parts of the product. When performing service, be sure to read and comply with these and other cautionary notices appearing in the operation and service manuals.

2. Parts identified by the ⚠ symbol and shaded ( ) parts are critical for safety.
   Replace only with specified part numbers.
   Note: Parts in this category also include those specified to comply with X-ray emission standards for products using cathode ray tubes and those specified for compliance with various regulations regarding spurious radiation emission.

3. Fuse replacement caution notice.
   Caution for continued protection against fire hazard.
   Replace only with same type and rated fuse(s) as specified.

4. Use specified internal wiring. Note especially:
   1) Wires covered with PVC tubing
   2) Double insulated wires
   3) High voltage leads

5. Use specified insulating materials for hazardous live parts. Note especially:
   1) Insulation Tape 3) Spacers 5) Barrier
   2) PVC tubing 4) Insulation sheets for transistors

6. When replacing AC primary side components (transformers, power cords, noise blocking capacitors, etc.) wrap ends of wires securely about the terminals before soldering.

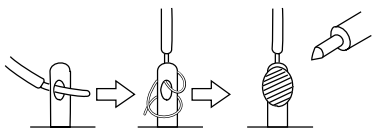


Fig.1

7. Observe that wires do not contact heat producing parts (heatsinks, oxide metal film resistors, fusible resistors, etc.)

8. Check that replaced wires do not contact sharp edged or pointed parts.

9. When a power cord has been replaced, check that 10-15 kg of force in any direction will not loosen it.

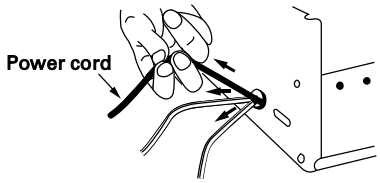


Fig.2

10. Also check areas surrounding repaired locations.

11. Products using cathode ray tubes (CRTs)
    In regard to such products, the cathode ray tubes themselves, the high voltage circuits, and related circuits are specified for compliance with recognized codes pertaining to X-ray emission. Consequently, when servicing these products, replace the cathode ray tubes and other parts with only the specified parts. Under no circumstances attempt to modify these circuits. Unauthorized modification can increase the high voltage value and cause X-ray emission from the cathode ray tube.

12. Crimp type wire connector
    In such cases as when replacing the power transformer in sets where the connections between the power cord and power transformer primary lead wires are performed using crimp type connectors, if replacing the connectors is unavoidable, in order to prevent safety hazards, perform carefully and precisely according to the following steps.

    1) **Connector part number :** E03830-001
    2) **Required tool :** Connector crimping tool of the proper type which will not damage insulated parts.
    3) **Replacement procedure**
       (1) Remove the old connector by cutting the wires at a point close to the connector.
       Important : Do not reuse a connector (discard it).

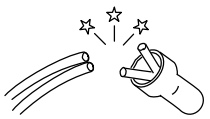


Fig.3

(2) Strip about 15 mm of the insulation from the ends of the wires. If the wires are stranded, twist the strands to avoid frayed conductors.

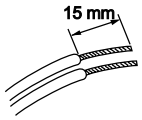


Fig.4

(3) Align the lengths of the wires to be connected. Insert the wires fully into the connector.

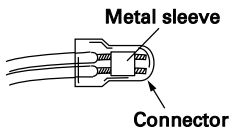


Fig.5

(4) As shown in Fig.6, use the crimping tool to crimp the metal sleeve at the center position. Be sure to crimp fully to the complete closure of the tool.

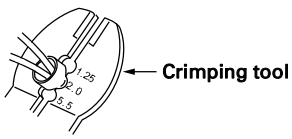


Fig.6

(5) Check the four points noted in Fig.7.

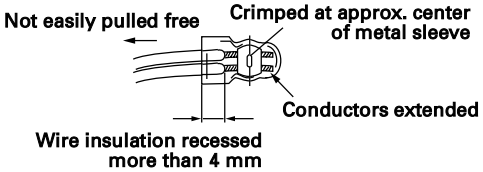

Not easily pulled free
Crimped at approx. center of metal sleeve
Conductors extended
Wire insulation recessed more than 4 mm

Fig.7

● Safety Check after Servicing

Examine the area surrounding the repaired location for damage or deterioration. Observe that screws, parts and wires have been returned to original positions, Afterwards, perform the following tests and confirm the specified values in order to verify compliance with safety standards.

1. Insulation resistance test
Confirm the specified insulation resistance or greater between power cord plug prongs and externally exposed parts of the set (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.). See table 1 below.

2. Dielectric strength test
Confirm specified dielectric strength or greater between power cord plug prongs and exposed accessible parts of the set (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.). See table 1 below.

3. Clearance distance
When replacing primary circuit components, confirm specified clearance distance (d), (d') between soldered terminals, and between terminals and surrounding metallic parts. See table 1 below.

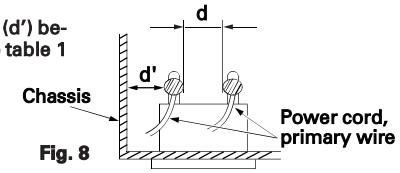


Fig. 8

4. Leakage current test
Confirm specified or lower leakage current between earth ground/power cord plug prongs and externally exposed accessible parts (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.).
Measuring Method : (Power ON)
Insert load Z between earth ground/power cord plug prongs and externally exposed accessible parts. Use an AC voltmeter to measure across both terminals of load Z. See figure 9 and following table 2.

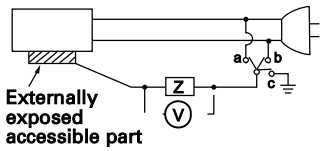


Fig. 9

5. Grounding (Class Ⅰ model only)
Confirm specified or lower grounding impedance between earth pin in AC inlet and externally exposed accessible parts (Video in, Video out, Audio in, Audio out or Fixing screw etc.).
Measuring Method:
Connect milli ohm meter between earth pin in AC inlet and exposed accessible parts. See figure 10 and grounding specifications.

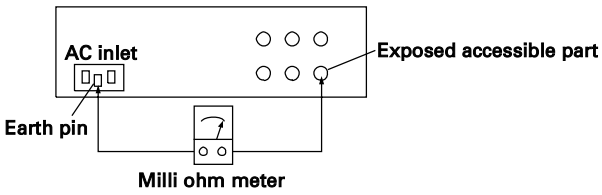


Fig. 10

Grounding Specifications

Region	Grounding Impedance (Z)
USA & Canada	Z ≦ 0.1 ohm
Europe & Australia	Z ≦ 0.5 ohm

AC Line Voltage	Region	Insulation Resistance (R)	Dielectric Strength	Clearance Distance (d), (d')
100 V	Japan	R ≧ 1 MΩ/500 V DC	AC 1 kV 1 minute	d, d' ≧ 3 mm
100 to 240 V			AC 1.5 kV 1 miute	d, d' ≧ 4 mm
110 to 130 V	USA & Canada	1 MΩ ≦ R ≦ 12 MΩ/500 V DC	AC 1 kV 1 minute	d, d' ≧ 3.2 mm
110 to 130 V 200 to 240 V	Europe & Australia	R ≧ 10 MΩ/500 V DC	AC 3 kV 1 minute (Class Ⅱ) AC 1.5 kV 1 minute (Class Ⅰ)	d ≧ 4 mm d' ≧ 8 mm (Power cord) d' ≧ 6 mm (Primary wire)

Table 1 Specifications for each region

AC Line Voltage	Region	Load Z	Leakage Current (i)	a, b, c
100 V	Japan	1 kΩ	i ≦ 1 mA rms	Exposed accessible parts
110 to 130 V	USA & Canada	0.15 μF, 1.5 kΩ	i ≦ 0.5 mA rms	Exposed accessible parts
110 to 130 V 220 to 240 V	Europe & Australia	2 kΩ	i ≦ 0.7 mA peak i ≦ 2 mA dc	Antenna earth terminals
		50 kΩ	i ≦ 0.7 mA peak i ≦ 2 mA dc	Other terminals

Table 2 Leakage current specifications for each region

Note: These tables are unofficial and for reference only. Be sure to confirm the precise values for your particular country and locality.

SECTION 1
DISASSEMBLY

1.1 Before disassembling

1.1.1 Precaution

- Be sure to disconnect the power supply unit prior to mounting and soldering of parts.
- Prior to removing a component part that needs to disconnect its connector(s) and its screw(s), first disconnect the wire(s) from the connector(s), and then remove the screw(s).
- Be careful not to damage the connector and wire etc. during connection and disconnection.
- When connecting the flat wire to the connector, be careful with the flat wire direction.
- Be careful in removing or handling the part to which some spacer or shield is attached for reinforcement or insulation.
- When replacing chip parts (especially IC parts), first remove the solder completely to prevent peeling of the pattern.
- Tighten screws properly during the procedures. Unless specified otherwise, tighten screws at a torque of 0.078N·m (0.8kgf·cm).
- The bracketed ( ) WR of the connector symbol are assigned nos. in priority order and do not correspond to those on the spare parts list.

1.1.2 Disconnection of connectors (wires)

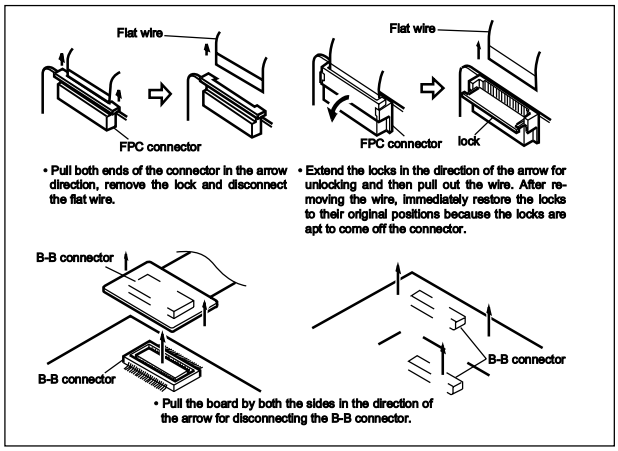

Flat wire
FPC connector
• Pull both ends of the connector in the arrow direction, remove the lock and disconnect the flat wire.
Flat wire
FPC connector
lock
• Extend the locks in the direction of the arrow for unlocking and then pull out the wire. After removing the wire, immediately restore the locks to their original positions because the locks are apt to come off the connector.
B-B connector
B-B connector
B-B connector
• Pull the board by both the sides in the direction of the arrow for disconnecting the B-B connector.

Fig. 1-1-2a CONNECTOR

1.1.3 Required disassembling tools

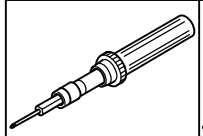
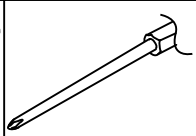
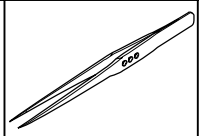
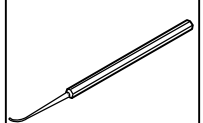
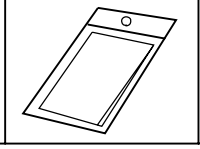
Torque driver YTU94088	Bit YTU94088-003	Tweezers P-895
		
Chip IC replacement jig PTS40844-2	**Cleaning cloth KSMM-01**	
		

Fig. 1-1-3a

- Torque driver
  Be sure to use to fastening the mechanism and exterior parts because those parts must strictly be controlled for tightening torque.
- Bit
  This bit is slightly longer than those set in conventional torque drivers.
- Tweezers
  To be used for removing and installing parts and wires.
- Chip IC replacement jig
  To be used for replacement of IC.
- Cleaning cloth
  Recommended the Cleaning cloth to wipe down the video heads, mechanism (tape transport system), optical lens surface.

1.2 Removing the major parts

1.2.1 How to read the procedure table

This table shows the steps for disassembly of the major parts. Reverse these steps when re-assembling them.
<Example>

Step No.	Part Name	Fig. No.	Point	Note
[1]	Top cover,	1-3a	4(S1a),(S1b),3(L1a), 2(SD1a),(P1a),(W1a), CN1(WR1a),	<Note 1a>
	Bracket		2(S1c)	
(*1)	(*2)	(*3)	(*4)	(*5)

(*1) Order of steps in Procedure
When reassembling, perform the step(s) in the reverse order.
(*2) Part name to be removed or installed.
(*3) Fig. No. showing procedure or part location.
(*4) Identification of part to be removed, unhooked, unlocked, released, unplugged, unclamped or unsoldered.
P= Spring, W= Washer, S= Screw, L= Locking tab, SD= Solder, CN**(WR**)= Remove the wire (WR**) from the connector (CN**).
(*5) Adjustment information for installation

1.2.2 Disassembly procedure

[FINAL ASS'Y]

Step No.	Part Name	Fig. No.	Point	Note
[1]	UPPER ASS'Y(G)	1-2-2a	(S1a), (S1b), (S1c), (S1d), COVER(SHOE) ASS'Y, (S1e), 2(S1f), (S1g), 4(S1h), MAIN CN106(WR1a)	
[2]	SHOE ASS'Y(G)	1-2-2a	(S2a), MAIN CN103(WR2a)	
[3]	FRONT ASS'Y(G)	1-2-2a	MAIN CN111(WR3a), MAIN CN109(WR3b), (S3a), (S3b), (S3c)	
[4]	OP FRAME ASS'Y	1-2-2a	MAIN CN104(WR4a), MAIN CN102(WR4b), (S4a), (S4b)	
[5]	REAR ASS'Y(G)	1-2-2a	MAIN CN110(WR5a), (S5a), (S5b), (S5c)	
[6]	BASE	1-2-2a	2(S6a)	

Step No.	Part Name	Fig. No.	Point	Note
[7]	JACK BOARD ASS'Y	1-2-2a	JACK CN201(WR7a), 2(S7a)	
[8]	LOWER CASE ASS'Y	1-2-2a	MAIN CN114(WR8a), (S8a), 3(S8b)	
[9]	MAIN BOARD ASS'Y	1-2-2a	(S9a), (S9b), (L9a), PRE/MDA CN401(WR9a), PRE/MDA CN408(WR9b)	
[10]	PRE/MDA BOARD ASS'Y	1-2-2a	PRE/MDA CN403(WR10a), PRE/MDA CN407(WR10b), PRE/MDA CN406(WR10c), PRE/MDA CN405(WR10d), PRE/MDA CN404(WR10e), 2(S10a), SHIELD COVER(PR), PRE/MDA CN402(WR10f), (S10b)	
[11]	MECHANISM ASS'Y	1-2-2a	3(S11a), BKT(MECHA) ASS'Y	

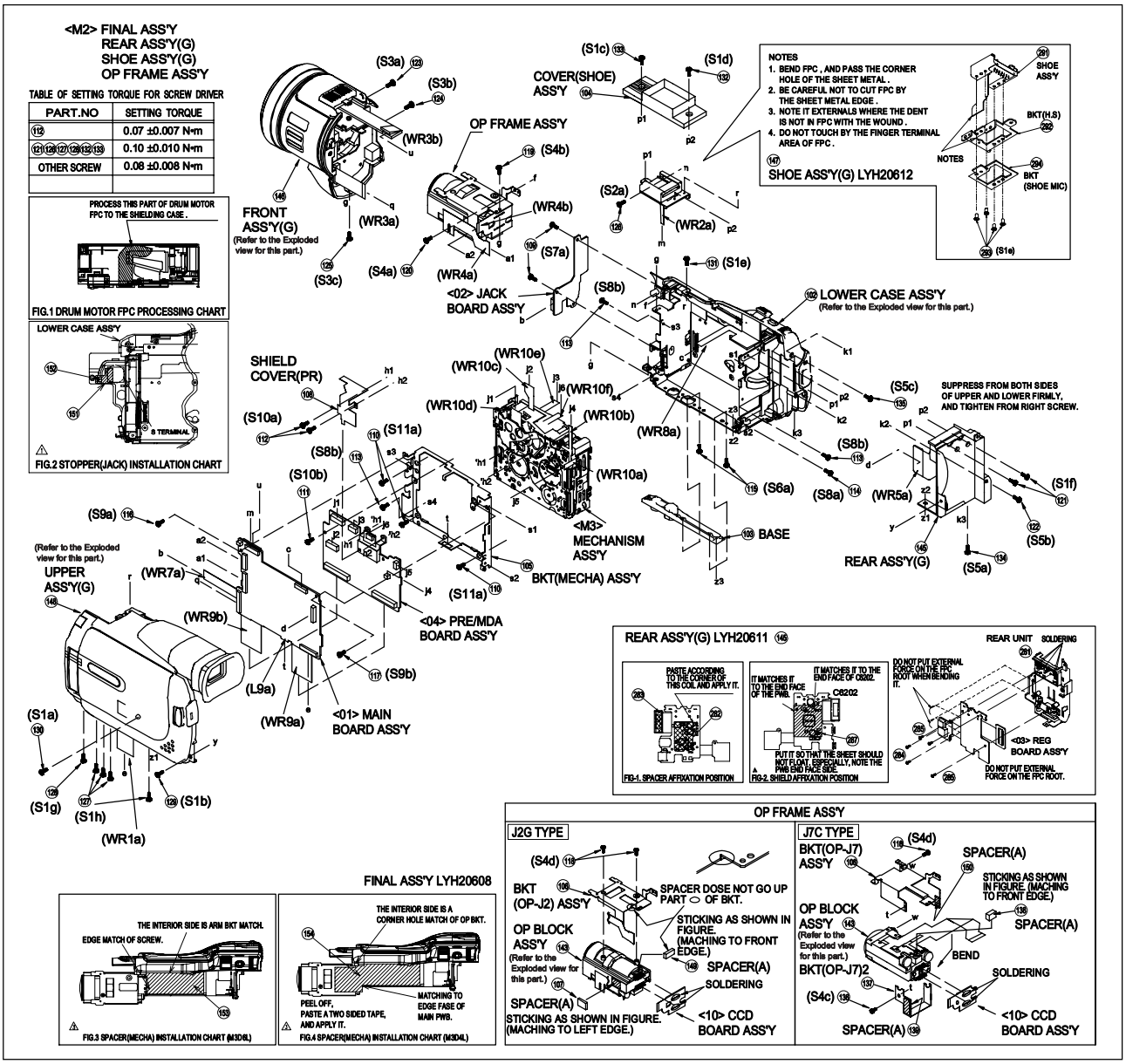

<M2> FINAL ASS'Y
REAR ASS'Y(G)
SHOE ASS'Y(G)
OP FRAME ASS'Y
TABLE OF SETTING TORQUE FOR SCREW DRIVER
PART.NO | SETTING TORQUE
(112) | 0.07 ±0.007 N•m
(121)(126)(127)(128)(132)(133) | 0.10 ±0.010 N•m
OTHER SCREW | 0.08 ±0.008 N•m
PROCESS THIS PART OF DRUM MOTOR FPC TO THE SHIELDING CASE.
FIG.1 DRUM MOTOR FPC PROCESSING CHART
LOWER CASE ASS'Y
S TERMINAL
FIG.2 STOPPER(JACK) INSTALLATION CHART
FRONT ASS'Y(G)
(Refer to the Exploded view for this part.)
OP FRAME ASS'Y
COVER(SHOE) ASS'Y
SHOE ASS'Y(G) LYH20612
NOTES
1. BEND FPC , AND PASS THE CORNER HOLE OF THE SHEET METAL .
2. BE CAREFUL NOT TO CUT FPC BY THE SHEET METAL EDGE .
3. NOTE IT EXTERNALS WHERE THE DENT IS NOT IN FPC WITH THE WOUND .
4. DO NOT TOUCH BY THE FINGER TERMINAL AREA OF FPC .
SHOE ASS'Y
BKT(H.S)
BKT (SHOE MIC)
<02> JACK BOARD ASS'Y
LOWER CASE ASS'Y
(Refer to the Exploded view for this part.)
SHIELD COVER(PR)
SUPPRESS FROM BOTH SIDES OF UPPER AND LOWER FIRMLY, AND TIGHTEN FROM RIGHT SCREW.
<M3> MECHANISM ASS'Y
BASE
BKT(MECHA) ASS'Y
REAR ASS'Y(G)
UPPER ASS'Y(G)
<04> PRE/MDA BOARD ASS'Y
<01> MAIN BOARD ASS'Y
REAR ASS'Y(G) LYH20611
PASTE ACCORDING TO THE CORNER OF THIS COIL AND APPLY IT.
FIG-1. SPACER AFFIXATION POSITION
IT MATCHES IT TO THE END FACE OF THE PWB.
IT MATCHES IT TO THE END FACE OF C8202.
C8202
PUT IT SO THAT THE SHEET SHOULD NOT FLOAT, ESPECIALLY, NOTE THE PWB END FACE SIDE.
FIG-2. SHIELD AFFIXATION POSITION
REAR UNIT SOLDERING
DO NOT PUT EXTERNAL FORCE ON THE FPC ROOT WHEN BENDING IT.
<03> REG BOARD ASS'Y
DO NOT PUT EXTERNAL FORCE ON THE FPC ROOT.
OP FRAME ASS'Y
J2G TYPE
BKT (OP-J2) ASS'Y
SPACER DOSE NOT GO UP PART ⌓ OF BKT.
STICKING AS SHOWN IN FIGURE. (MACHING TO FRONT EDGE.)
OP BLOCK ASS'Y
SPACER(A)
SOLDERING
STICKING AS SHOWN IN FIGURE. (MACHING TO LEFT EDGE.)
<10> CCD BOARD ASS'Y
J7C TYPE
BKT(OP-J7) ASS'Y
STICKING AS SHOWN IN FIGURE. (MACHING TO FRONT EDGE.)
BEND
BKT(OP-J7)2
FINAL ASS'Y LYH20608
THE INTERIOR SIDE IS ARM BKT MATCH.
EDGE MATCH OF SCREW.
FIG.3 SPACER(MECHA) INSTALLATION CHART (M3D4L)
THE INTERIOR SIDE IS A CORNER HOLE MATCH OF OP BKT.
PEEL OFF, PASTE A TWO SIDED TAPE, AND APPLY IT.
MATCHING TO EDGE FASE OF MAIN PWB.
FIG.4 SPACER(MECHA) INSTALLATION CHART (M3D4L)

Fig. 1-2-2a FINAL ASS'Y

[WIRE CONNECTION]

WR No.	CONNECTION				
WR1a	MONITOR	CN701		MAIN	CN106
WR2a	SHOE	—		MAIN	CN103
WR3a	FRONT	CN501		MAIN	CN111
WR3b	STROBE	CN6501		MAIN	CN109
WR4a	OP BLOCK	—		MAIN	CN104
WR4b	CCD	—		MAIN	CN102
WR5a	REG	CN301		MAIN	CN110
WR7a	MAIN	CN112		JACK	CN201
WR8a	ZOOM UNIT	—		MAIN	CN114
WR9a	MAIN	CN107		PRE/MDA	CN401
WR9b	MAIN	CN108		PRE/MDA	CN408
WR10a	MECHA LOADING MOTOR	—		PRE/MDA	CN403
WR10b	MECHA ROTARY ENCODER	—		PRE/MDA	CN407
WR10c	MECHA SENSOR	—		PRE/MDA	CN406
WR10d	MECHA CAPSTAN MOTOR	—		PRE/MDA	CN405
WR10e	MECHA DRUM MOTOR	—		PRE/MDA	CN404
WR10f	MECHA HEAD	—		PRE/MDA	CN402

[UPPER ASS'Y(G)]

Step No.	Part Name	Fig. No.	Point	Note
[101]	COVER(UPPER) ASS'Y	1-2-2b	2(S101a)	
[102]	VF ASS'Y	1-2-2b	MONITOR CN703(WR102a), (S102a), (S102b)	
[103]	MONITOR BOARD ASS'Y	1-2-2b	MONITOR CN704(WR103a), MONITOR CN702(WR103b), (S103a), 6(S103b) KNOB(SLIDE)	
[104]	MONITOR ASS'Y(G)	1-2-2b	2(S104a), 2(S104b)	
[105]	BKT(HINGE3.5)	1-2-2b	2(S105a), 2(S105b) SPEAKER	

[MONITOR ASS'Y(G)]

Step No.	Part Name	Fig. No.	Point	Note
[201]	M. COVER(D6) ASS'Y LCD(SUB), EL(WINDOW)	1-2-2c	2(S201a), 2(S201b), BL3.5 CN604(WR201a), BL3.5 CN603(WR201b) 2(S201c), HOLDER(LCD)	
[202]	FPC	1-2-2c	BL3.5 CN606(WR202a)	
[203]	MONI HINGE ASS'Y	1-2-2c	BL3.5 CN601(WR203a), BL3.5 CN605(WR203b) 2(S203a), HINGE COVER(U), HINGE COVER(L)	
[204]	BL3.5 BOARD ASS'Y	1-2-2c	BL3.5 CN602(WR204a), 2(SD204a), (S204a)	

[VF ASS'Y]

Step No.	Part Name	Fig. No.	Point	Note
[301]	EYE CUP	1-2-2b	2(S301a)	
[302]	U. CASE R(VF)	1-2-2b	2(S302a)	
[303]	U. CASE F(VF)	1-2-2b	(S303a), 2(S303b), 2(S303c) HOLDER(VF) ASS'Y	
[304]	C VF BOARD ASS'Y	1-2-2b	2(S304a), (S304b), B. CASE(VF), C VF CN801(FPC), C VF CN802(LCD module)	

[FRONT ASS'Y(G)]

Step No.	Part Name	Fig. No.	Point	Note
[401]	FRONT BOARD ASS'Y	1-2-2d	(S401a), RING, SW CN901(WR401a), SPACER, 2(S401b), FRONT CN503(WR401b)	
[402]	SW BOARD ASS'Y	1-2-2d	SW CN902(WR402a), 2(S402a), SW CN903(WR402b) 2(S402b), BKT(FRONT)	
[403]	STROBE BOARD ASS'Y	1-2-2d	(S403a)	
[404]	F. COVER ASS'Y	1-2-2d	3(S404a)	

[STROBE BOARD ASS'Y]

Step No.	Part Name	Fig. No.	Point	Note
[501]	HOLDER(PWB)	1-2-2f	E. CAP, (WR501a), 2(S501a), (S501b)	
[502]	STROBE PWB	1-2-2f	(SD502)	
[503]	FLASH UNIT	1-2-2f	SPACER(A), (L503a), (L503b), COVER(MIC), MIC ASS'Y	

[LOWER CASE ASS'Y]

Step No.	Part Name	Fig. No.	Point	Note
[601]	LOWER CASE	1-2-2e	(S601a), 2(S601b), (S601c), 2(S601d), 3(S601e), BKT(CASSETTE), INDICATOR, CASSETTE COVER, 2(S601f), ARM ASS'Y, 2(S601g), ZOOM UNIT	
[602]	CASSETTE COVER	1-2-2e	(S602a), CAP(GRIP BELT), GRIP BELT, 2(S602b), HOOK, 2(S602c), HOLDER(LOCK), KNOB(LOCK)	

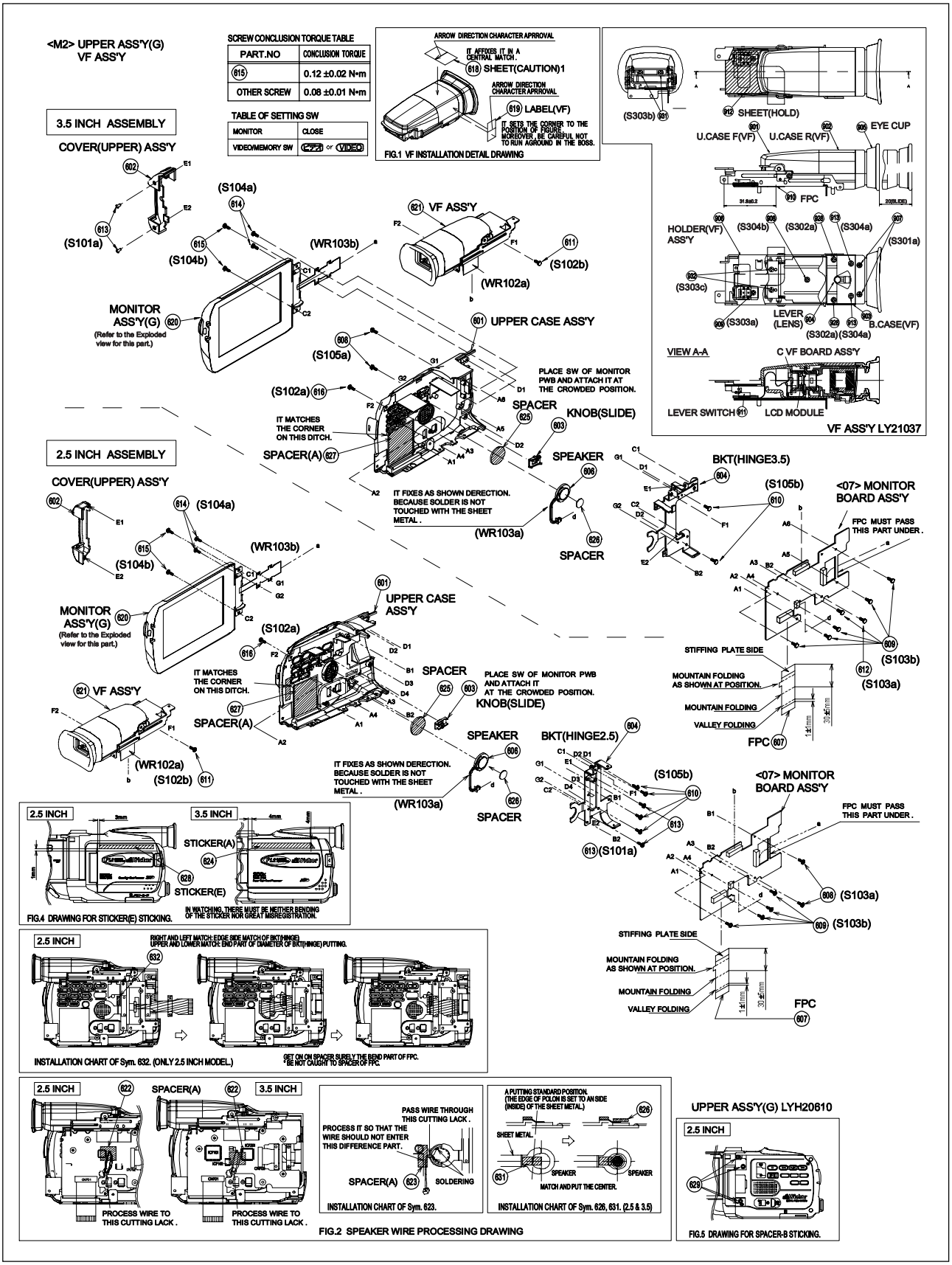


Fig. 1-2-2b UPPER ASS'Y(G)

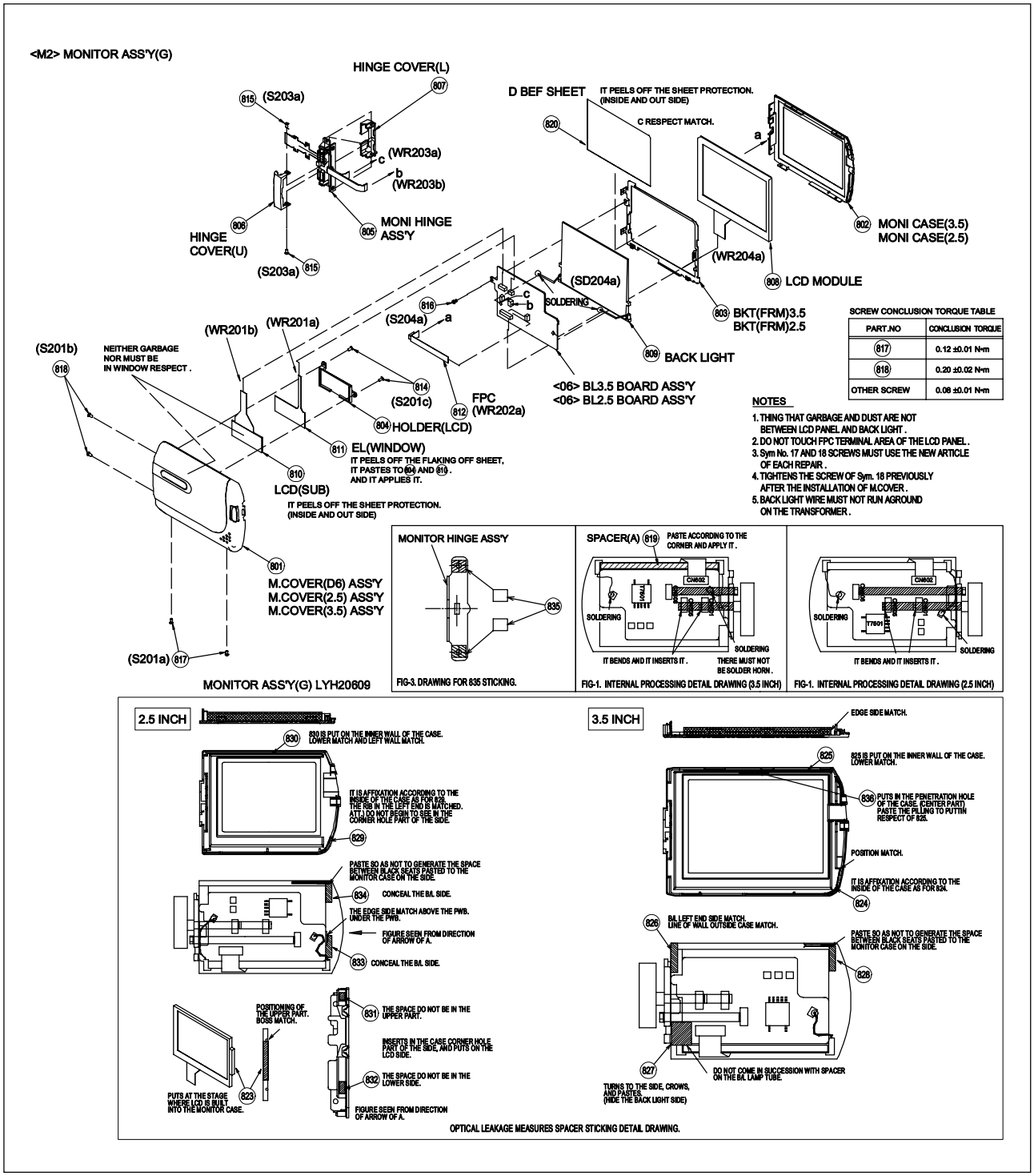

<M2> MONITOR ASS'Y(G)
HINGE COVER(L)
807
815 (S203a)
c (WR203a)
b (WR203b)
806
HINGE COVER(U)
805 MONI HINGE ASS'Y
(S203a) 815
D BEF SHEET
IT PEELS OFF THE SHEET PROTECTION. (INSIDE AND OUT SIDE)
820
C RESPECT MATCH.
a
802 MONI CASE(3.5) MONI CASE(2.5)
(WR204a)
808 LCD MODULE
(SD204a)
SOLDERING
803 BKT(FRM)3.5 BKT(FRM)2.5
809 BACK LIGHT
816
(S204a)
a
812 FPC (WR202a)
<06> BL3.5 BOARD ASS'Y
<06> BL2.5 BOARD ASS'Y
(S201b)
818
NEITHER GARBAGE NOR MUST BE IN WINDOW RESPECT .
(WR201b)
(WR201a)
814
(S201c)
804 HOLDER(LCD)
811 EL(WINDOW)
IT PEELS OFF THE FLAKING OFF SHEET, IT PASTES TO 804 AND 810 . AND IT APPLIES IT.
810 LCD(SUB)
IT PEELS OFF THE SHEET PROTECTION. (INSIDE AND OUT SIDE)
801 M.COVER(D6) ASS'Y M.COVER(2.5) ASS'Y M.COVER(3.5) ASS'Y
(S201a) 817
MONITOR ASS'Y(G) LYH20609
SCREW CONCLUSION TORQUE TABLE
PART.NO | CONCLUSION TORQUE
817 | 0.12 ±0.01 N•m
818 | 0.20 ±0.02 N•m
OTHER SCREW | 0.08 ±0.01 N•m
NOTES
1. THING THAT GARBAGE AND DUST ARE NOT BETWEEN LCD PANEL AND BACK LIGHT .
2. DO NOT TOUCH FPC TERMINAL AREA OF THE LCD PANEL .
3. Sym No. 17 AND 18 SCREWS MUST USE THE NEW ARTICLE OF EACH REPAIR .
4. TIGHTENS THE SCREW OF Sym. 18 PREVIOUSLY AFTER THE INSTALLATION OF M.COVER .
5. BACK LIGHT WIRE MUST NOT RUN AGROUND ON THE TRANSFORMER .
MONITOR HINGE ASS'Y
835
FIG-3. DRAWING FOR 835 STICKING.
SPACER(A) 819
PASTE ACCORDING TO THE CORNER AND APPLY IT .
CN602
T7601
SOLDERING
IT BENDS AND IT INSERTS IT .
THERE MUST NOT BE SOLDER HORN .
FIG-1. INTERNAL PROCESSING DETAIL DRAWING (3.5 INCH)
CN602
T7601
SOLDERING
IT BENDS AND IT INSERTS IT .
FIG-1. INTERNAL PROCESSING DETAIL DRAWING (2.5 INCH)
2.5 INCH
830
830 IS PUT ON THE INNER WALL OF THE CASE. LOWER MATCH AND LEFT WALL MATCH.
IT IS AFFIXATION ACCORDING TO THE INSIDE OF TVE CASE AS FOR 829. THE RIB IN THE LEFT END IS MATCHED. ATT.) DO NOT BEGIN TO SEE IN THE CORNER HOLE PART OF THE SIDE.
829
PASTE SO AS NOT TO GENERATE THE SPACE BETWEEN BLACK SEATS PASTED TO THE MONITOR CASE ON THE SIDE.
834 CONCEAL THE B/L SIDE.
THE EDGE SIDE MATCH ABOVE THE PWB. UNDER THE PWB.
FIGURE SEEN FROM DIRECTION OF ARROW OF A.
833 CONCEAL THE B/L SIDE.
POSITIONING OF THE UPPER PART. BOSS MATCH.
831 THE SPACE DO NOT BE IN THE UPPER PART.
INSERTS IN THE CASE CORNER HOLE PART OF THE SIDE, AND PUTS ON THE LCD SIDE.
832 THE SPACE DO NOT BE IN THE LOWER SIDE.
FIGURE SEEN FROM DIRECTION OF ARROW OF A.
PUTS AT THE STAGE WHERE LCD IS BUILT INTO THE MONITOR CASE.
823
3.5 INCH
EDGE SIDE MATCH.
825 IS PUT ON THE INNER WALL OF THE CASE. LOWER MATCH.
836 PUTS IN THE PENETRATION HOLE OF THE CASE. (CENTER PART) PASTE THE FILLING TO PUTTIN RESPECT OF 825.
POSITION MATCH.
IT IS AFFIXATION ACCORDING TO THE INSIDE OF THE CASE AS FOR 824.
824
826 B/L LEFT END SIDE MATCH. LINE OF WALL OUTSIDE CASE MATCH.
PASTE SO AS NOT TO GENERATE THE SPACE BETWEEN BLACK SEATS PASTED TO THE MONITOR CASE ON THE SIDE.
828
827 DO NOT COME IN SUCCESSION WITH SPACER ON THE B/L LAMP TUBE.
TURNS TO THE SIDE, CROWS, AND PASTES. (HIDE THE BACK LIGHT SIDE)
OPTICAL LEAKAGE MEASURES SPACER STICKING DETAIL DRAWING.

Fig. 1-2-2c MONITOR ASS'Y(G)

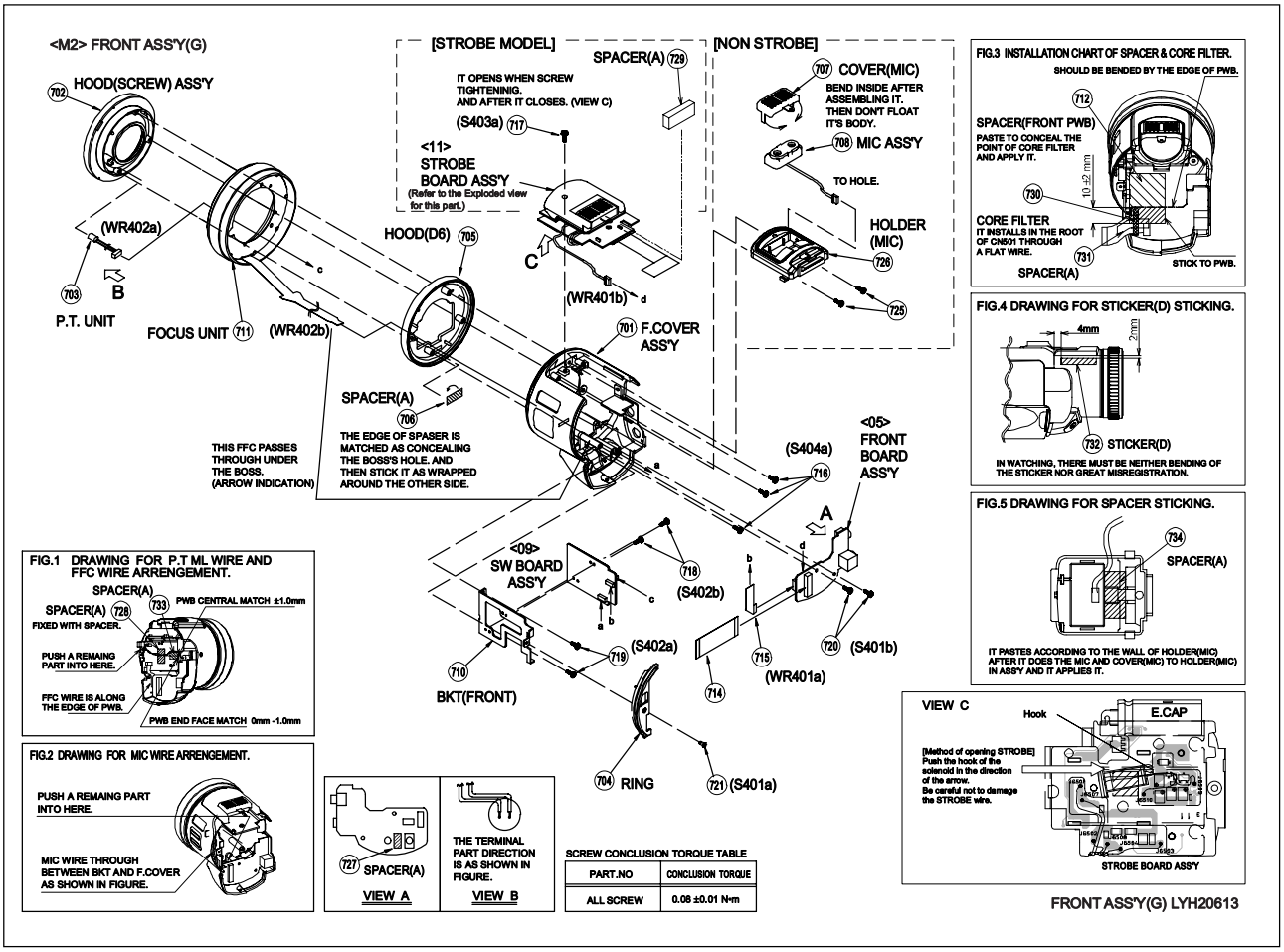


Fig. 1-2-2d FRONT ASS'Y(G)

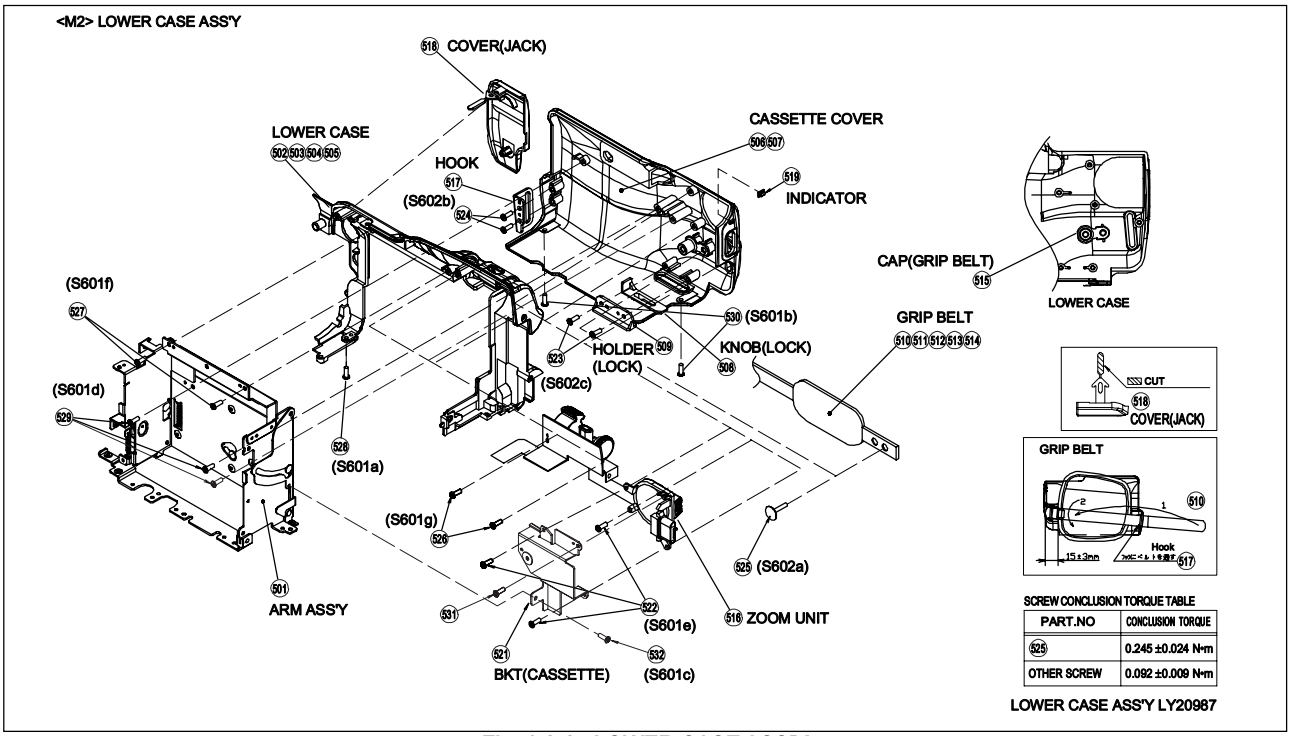


Fig. 1-2-2e LOWER CASE ASS'Y

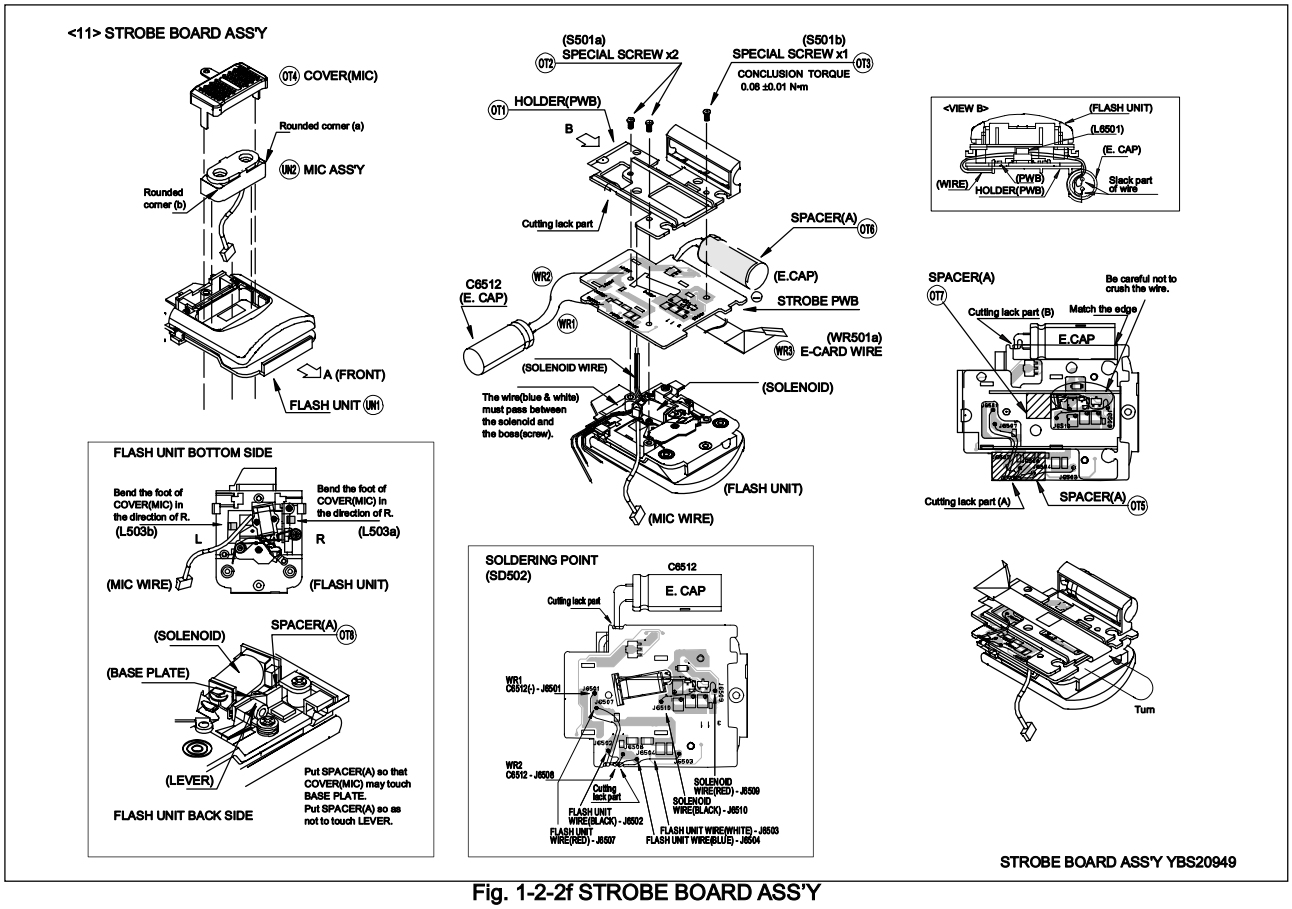


Fig. 1-2-2f STROBE BOARD ASS'Y

1.3 Manually removing the cassette tape

The following procedure describes a simplified method of ejecting the cassette tape in case it is not possible to eject it, due to an electrical failure.

Be careful not to damage any of the parts or the tape when performing repairs or maintenance work.

(1) Remove the Power Unit (battery, DC code, etc.) from the main unit.
(2) Open the Cassette cover.
(3) Attach a piece of PVC tape at the front of the Cassette housing.
    This helps prevent the tape from being damaged when the Cassette housing assembly is moved upward at the unloading end.
(4) Apply DC3V to the electrode on the top surface of the Loading motor assembly to set the Mechanism assembly to the eject mode.
    Unloading end is eject mode.
(5) If there is any slack tape in the tape transport system, wind it inside the cassette tape by turning the Reel disk (SUP) from the backside of the Slide deck assembly.
(6) Peel off the PVC tape and take out the cassette tape from the Cassette housing.
    Make sure that grease or a similar substance is not attached to the surface of the tape.
    Similarly, also make sure that grease or a similar substance is not attached on the Mechanism assembly.

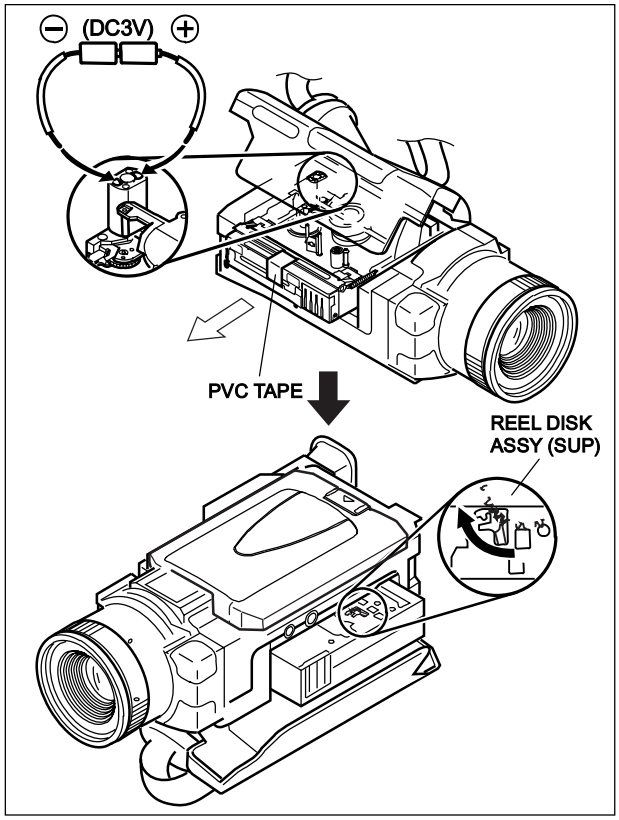
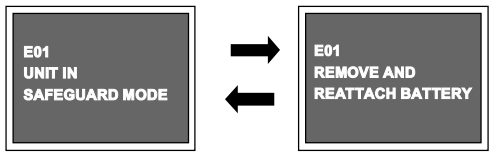


Fig. 1-3a

1.4 EMERGENCY DISPLAY

Whenever some abnormal signal is input to the syscon CPU, an error number (E01, as an example) is displayed on the LCD monitor or (in the Electronic view finder).
In every error status, such the message as shown below alternately appear over and over.
In an emergency mode, all operations except turning on/off the Power switch are ineffectual.

Example (in case of the error number E01):



LCD display	Emergency mode	Details	Possible cause
E01	LOADING	In the case the encoder position is not shifted to the next point though the loading motor has rotated in the loading direction for 4 seconds or more. This error is defined as [E01].	1. The mechanism is locked during mode shift. 2. The mechanism is locked at the mechanism loading end, because the encoder position is skipped during mechanism mode shift. 3. No power is supplied to the loading MDA.
E02	UNLOADING	In the case the encoder position is not shifted to the next point though the loading motor has rotated in the unloading direction for 4 seconds or more. This error is defined as [E02].	1. The mechanism is locked during mode shift. 2. The mechanism is locked at the mechanism loading end, because the encoder position is skipped during mechanism mode shift.
E03	TU & SUP REEL FG	In the case no REEL FG is produced for 4 seconds or more in the capstan rotation mode after loading was complete, the mechanism mode is shifted to STOP with the pinch roller set off. This error is defined as [E03]. However, no REEL EMG is detected in the SLW/ STILL mode.	1. The idler gear does not engage with the reel disk well. 2. Though the idler gear and reel disk are engaged with each other, the tape is not wound because of overload to the mechanism. 3. No FG pulse is output from the reel sensor. 4. No power is supplied to the reel sensor. 5. Tape transport operation takes place with a cassette having no tape inside. 6. The tape slackens and no pulse is produced until the slack is taken up and the tape comes into the normal status.
E04	DRUM FG	In the case there is no DRUM FG input in the drum rotation mode for 4 seconds or more. This error is defined as [E04], and the mechanism mode is shifted to STOP with the pinch roller set off.	1. The drum cannot be started or drum rotation is stopped because tape transport load is too high. 1) Tape tension is extremely high. 2) The tape is damaged or soiled with grease, etc. 2. The DRUM FG signal is not received by the syscon CPU. 1) Disconnection in the middle of the signal line. 2) Failure of the DRUM FG pulse generator (hall element). 3. No drum control voltage is supplied to the MDA. 4. No power is supplied to the DRUM MDA.
E05	—	—	—
E06	CAPSTAN FG	In the case no CAPSTAN FG is produced in the capstan rotation mode for 2 seconds or more. This error is defined as [E06], and the mechanism mode is shifted to STOP with the pinch roller set off. However, no CAPSTAN EMG is detected in the STILL/FF/ REW mode.	1. The CAPSTAN FG signal is not received by the syscon CPU. 1) Disconnection in the middle of the signal line. 2) Failure of the CAPSTAN FG pulse generator (MR element). 2. No capstan control voltage is supplied to the MDA. 3. No power is supplied to the CAPSTAN MDA. 4. The capstan cannot be started or capstan rotation is stopped because tape transport load is too high. 1) Tape tension is extremely high. (Mechanical locking) 2) The tape is damaged or soiled with grease, etc. (Tape tangling occurs, etc.)

Fig. 1-4a

SECTION 3
ADJUSTMENT

3.1 Before adjustment

3.1.1 Precaution

This model does not contain adjustment controls (VR).
General deck system, camera system and monitor system adjustment are not required. However, if circuit board mounting the EEPROM needs replacement, please use original EEPROM on to new board. Then adjustment are not required. And if parts such as the following need replacement, special computerized adjustment are required. Electrical adjustment with personal computer is setup and it adjusts using a service support system. Please contact to JVC Service for detail information.

- OP BLOCK ASSEMBLY
- EEPROM (IC1003 of MAIN board)

In the event of malfunction with electrical circuits, troubleshooting with the aid of proper test instruments most be done first, and then commence necessary repair, replacement and adjustment, etc.

- In case of wiring to chip test points for measurement, use IC clips, etc. to avoid any stress.
- Since connectors are fragile, carefully handle them in disconnecting and connecting.
- In the following work, use the patch cords as required. For details of the patch cords, see the "BOARD INTERCONNECTIONS" (CHARTS AND DIAGRAMS).

3.1.2 Required test equipments

- AC power adapter
- Color television or monitor
- Oscilloscope
  (dual-trace type, observable 100 MHz or higher frequency)
  It is recommended to use one observable 300 MHz or higher frequency.
- Digital voltmeter
- Frequency counter (with threshold level adjuster)
- Personal computer

3.1.3 Required adjustment tools

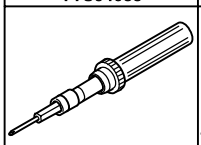
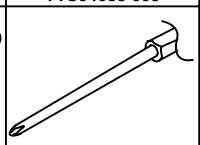
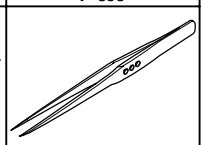
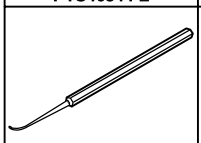
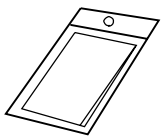
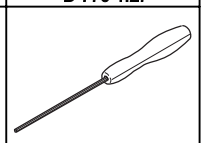
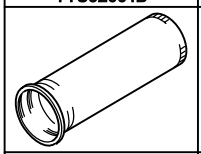
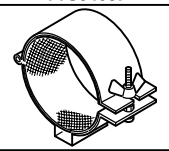
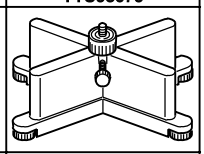
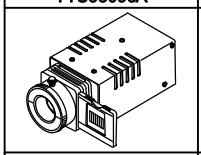
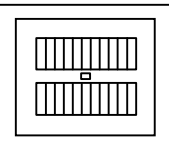
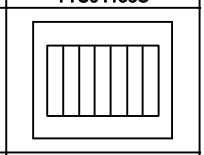
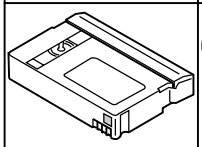
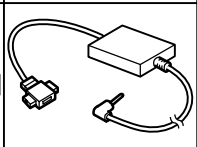
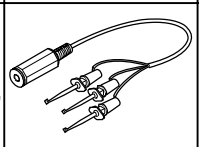
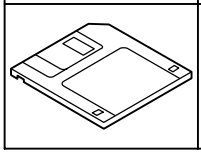
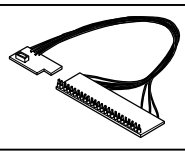
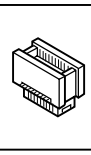
Torque driver YTU94088	Bit YTU94088-003	Tweezers P-895
		
Chip IC replacement jig PTS40844-2	Cleaning cloth KSMM-01	Guide driver (Hexagonal) D-770-1.27
		
INF adjustment lens YTU92001B	INF lens holder YTU94087	Camera stand YTU93079
		
Light box assembly YTU93096A	Gray scale chart YTU94133A	Color bar chart YTU94133C
		
Alignment tape MC-*	PC cable QAM0099-***	Communication cable YTU93107A
		
Service support system YTU94057-**	Jig connector cable YTU93106B	Extension connector YTU94145C-30
		

Table 3-1-3a

- Torque driver
  Be sure to use to fastening the mechanism and exterior parts because those parts must strictly be controlled for tightening torque.
- Bit
  This bit is slightly longer than those set in conventional torque drivers.
- Tweezers
  To be used for removing and installing parts and wires.
- Chip IC replacement jig
  To be used for replacement of IC.
- Cleaning cloth
  Recommended the Cleaning cloth to wipe down the video heads, mechanism (tape transport system), optical lens surface.
- Guide driver (Hexagonal)
  To be used for mechanism compatibility adjustment.
- INF adjustment lens
  To be used for adjustment of the camera system.
  For the usage of this tool, refer to the Service Bulletin No. YA-SB-10035.
- INF lens holder
  To be used together with the Camera stand for operating the Videocamera in the stripped-down condition such as the status without the exterior parts or for using commodities that are not yet conformable to the interchangeable ring.
  For the usage of this tool, refer to the Service Bulletin No. YA-SB-10035.
- Camera stand
  To be used together with the INF adjustment lens holder.
  For the usage of this tool, refer to the Service Bulletin No. YA-SB-10035.
- Light box assembly
  To be used for adjustment of the camera system.
  For the usage of this tool, refer to the Service Bulletin No. YA-SB-10035.
- Gray scale chart
  To be used for adjustment of the camera system.
  For the usage of this tool, refer to the Service Bulletin No. YA-SB-10035.
- Color bar chart
  To be used for adjustment of the camera system.
  For the usage of this tool, refer to the Service Bulletin No. YA-SB-10035.
- Alignment tape
  To be used for mechanism compatibility adjustment.
  MC-1 [For NTSC model]
  MC-2 [For PAL model]
- PC cable
  To be used to connect the Videocamera and a personal computer with each other when a personal computer is used for adjustment.
  QAM0099-001 [For J* model]
  QAM0099-002 [For U* and K* models]
  QAM0099-003 [For E* models]
  QAM0099-005 [For A* models]
- Communication cable
  Connect the Communication cable between the PC cable and Jig connector cable when performing a PC adjustment.
- Service support system
  To be used for adjustment with a personal computer. Software can be downloaded also from JS-net.
- Jig connector cable
  Connected to CN for Jig of the circuit board and used for electrical adjustment, etc.
- Extension connector
  Connect this extension connector to the connector of the Jig connector cable for extending the cable connector.

3.1.4 Jig connector cable connection

3.1.4.1 Preparation

The Jig connector cable (YTU93106B) has been provided for GR-DV2000 series. And it has been connected only 9 terminals for low cost, although it has 30 terminals.
Now it can be used another series camcorder, but all the terminals have to be connected by soldering wires. Refer to the Service Bulletin (No. YA-SB-10082), and connect all the terminals.

3.1.4.2 Connection

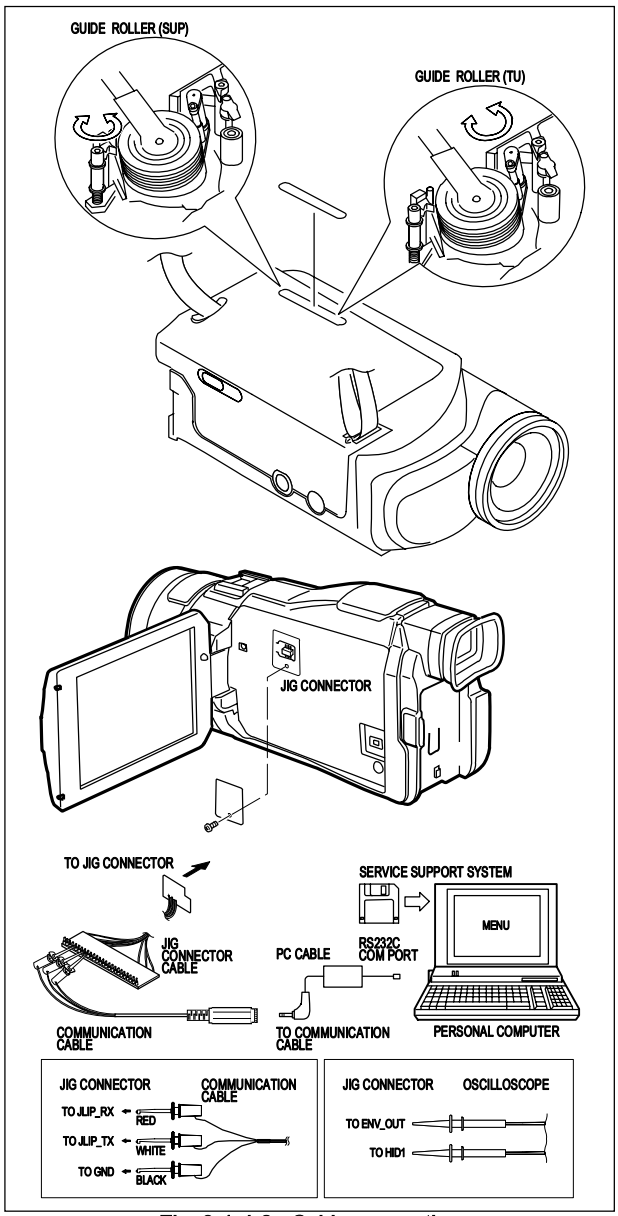


Fig. 3-1-4-2a Cable connection

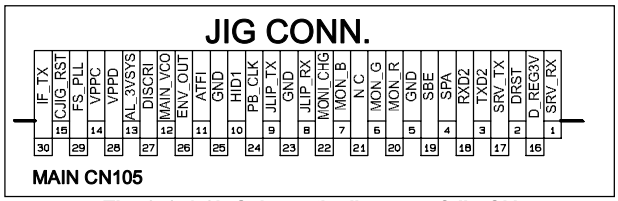


Fig. 3-1-4-2b Schematic diagram of Jig CN

3.2 Mechanism compatibility adjustment

3.2.1 Tape pattern check

(1) Play back the tape for compatibility adjustment.
(2) Apply the external trigger signal to HID1, to observe the waveform of the ENV_OUT.
(3) Set to the manual tracking mode (ATF OFF).
(4) Make sure that there is no significant level drop of the waveform caused by the tracking operation, with its generally parallel and linear variation ensured. Perform the following adjustments when required.
(5) Reduce the waveform by the tracking operation. If a drop in level is found on the left side, turn the guide roller (supply side) to make the waveform linear.
If a drop in level is on the right side, likewise turn the guide roller (take-up side) to make it linear.
(6) Unload the cassette tape once, play back the tape again and confirm that the waveform is flat.
(7) Record at the recording tape, and play back the recorded signal.
(8) Confirm that the waveform is flat.

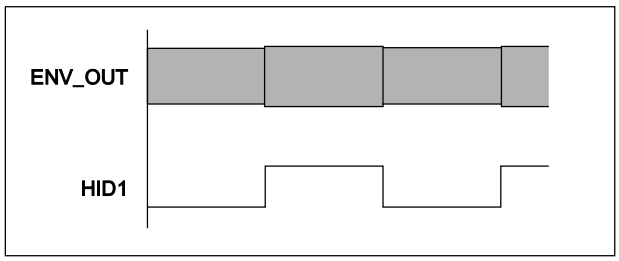


Fig. 3-2-1a

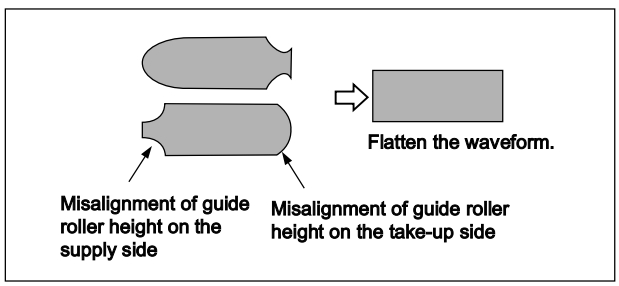

Flatten the waveform.
Misalignment of guide roller height on the supply side
Misalignment of guide roller height on the take-up side

Fig. 3-2-1b

3.3 Electrical adjustment

Adjustment is performed by using personal computer. Read README.TXT file to use the software for Service support system properly.
As for the connection of cables, see Fig. Cable connection.

JVC
VICTOR COMPANY OF JAPAN, LIMITED
AV & MULTIMEDIA COMPANY. 12,3-chome,Moriya-cho,Kanagawa-ku,Yokohama,Kanagawa-prefecture,221-8528,Japan

Printed in Japan
0306 VP

SECTION 5
PARTS LIST

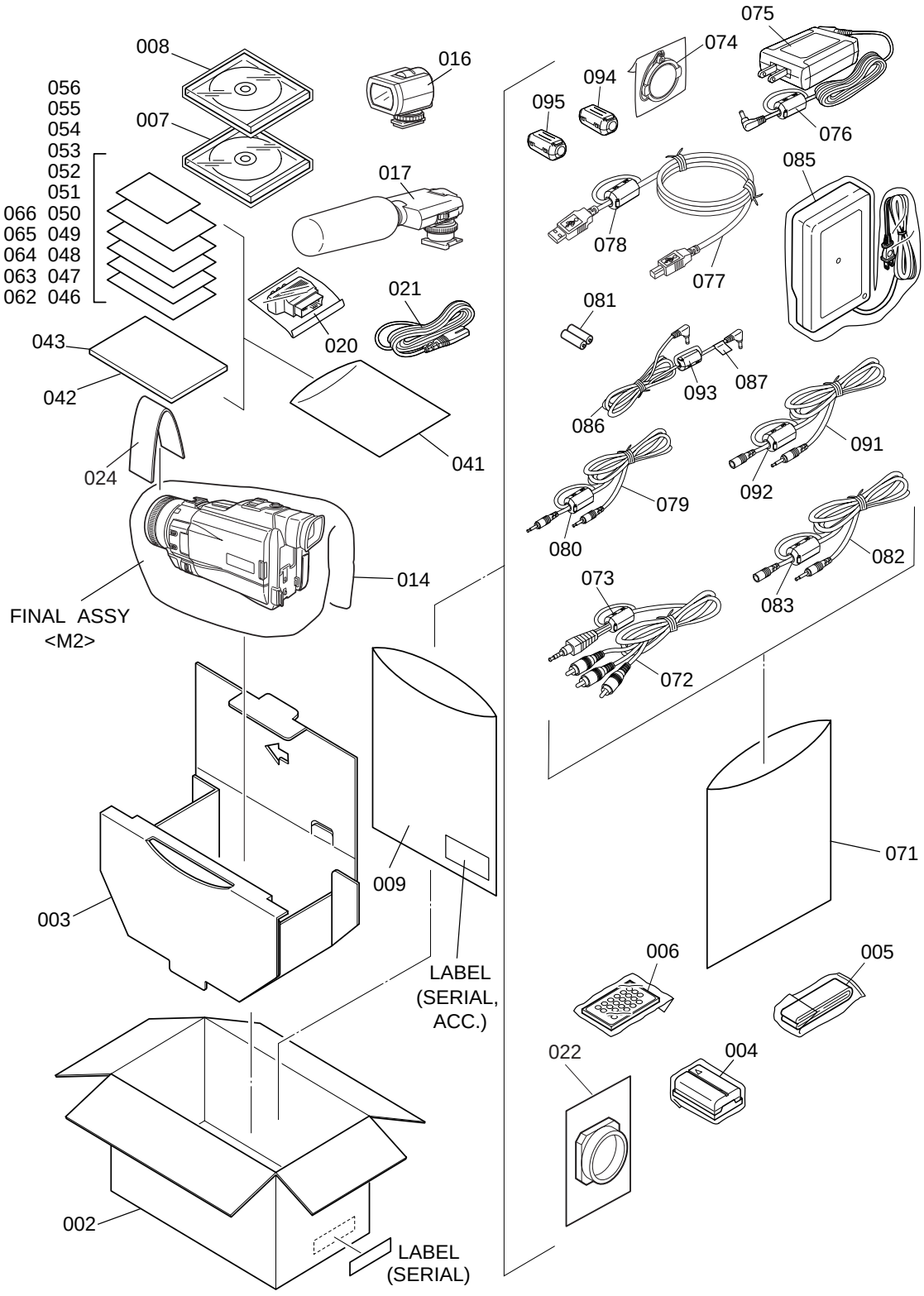
5.1 EXPLODED VIEW

SAFETY PRECAUTION

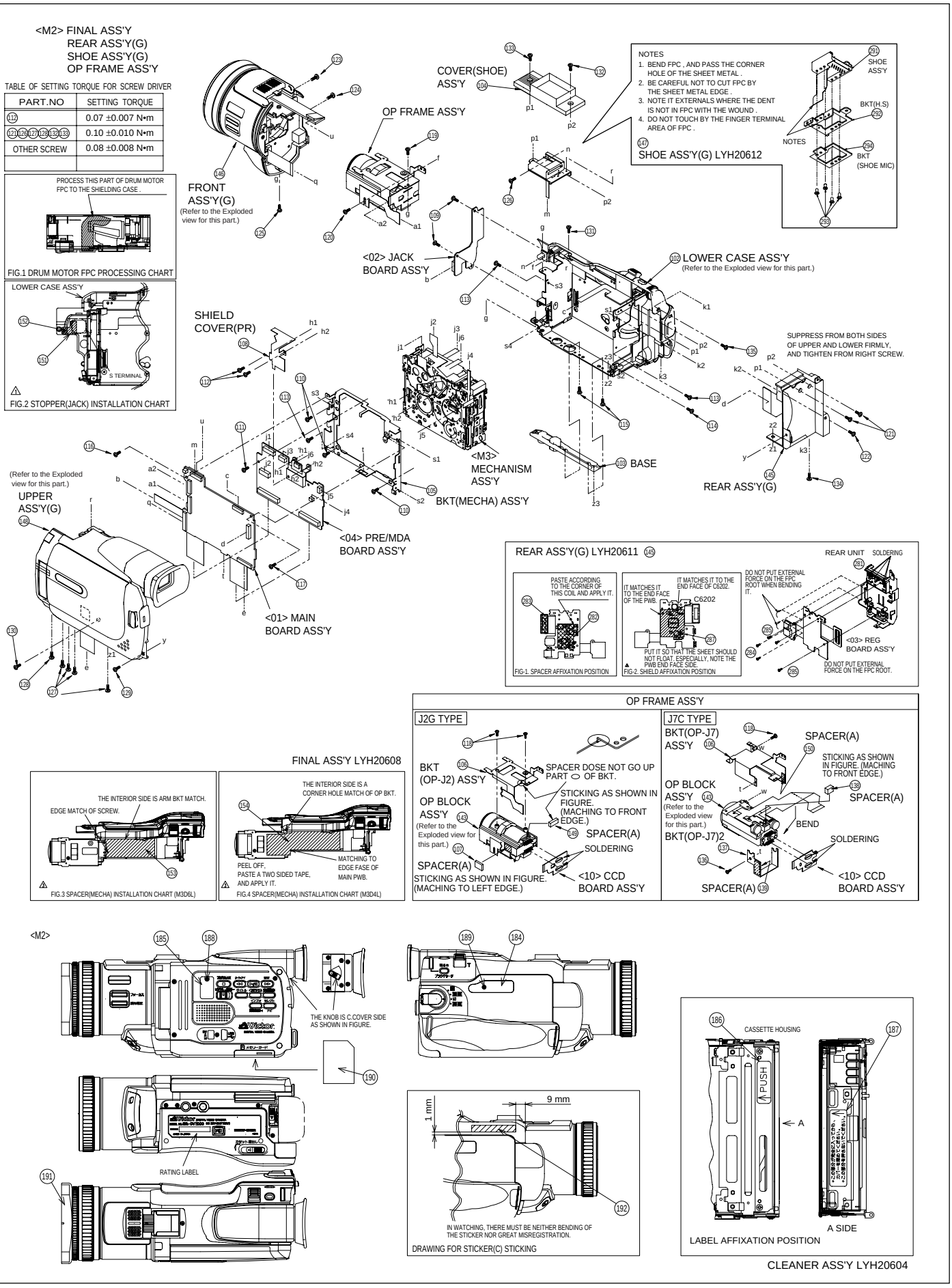
Parts identified by the ⚠ symbol are critical for safety. Replace only with specified part numbers.
BEWARE OF BOGUS PARTS
Parts that do not meet specifications may cause trouble in regard to safety and performance. We recommend that genuine JVC parts be used.

5.1.1 PACKING AND ACCESSORY ASSEMBLY <M1>

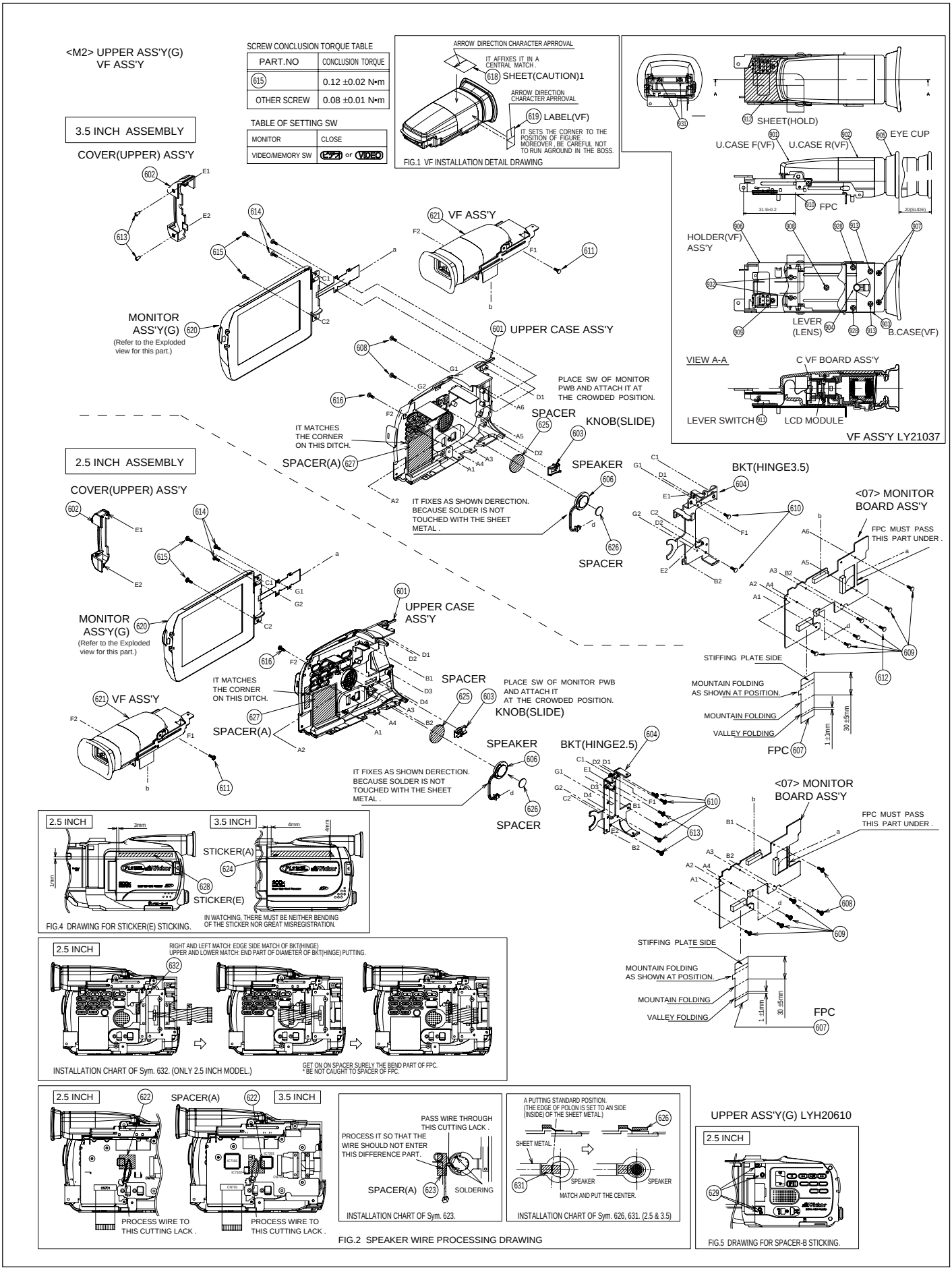
The instruction manual to be provided with this product will differ according to the destination.



5.1.2 FINAL ASSEMBLY, REAR ASSEMBLY(G) AND SHOE ASSEMBLY(G)<M2>

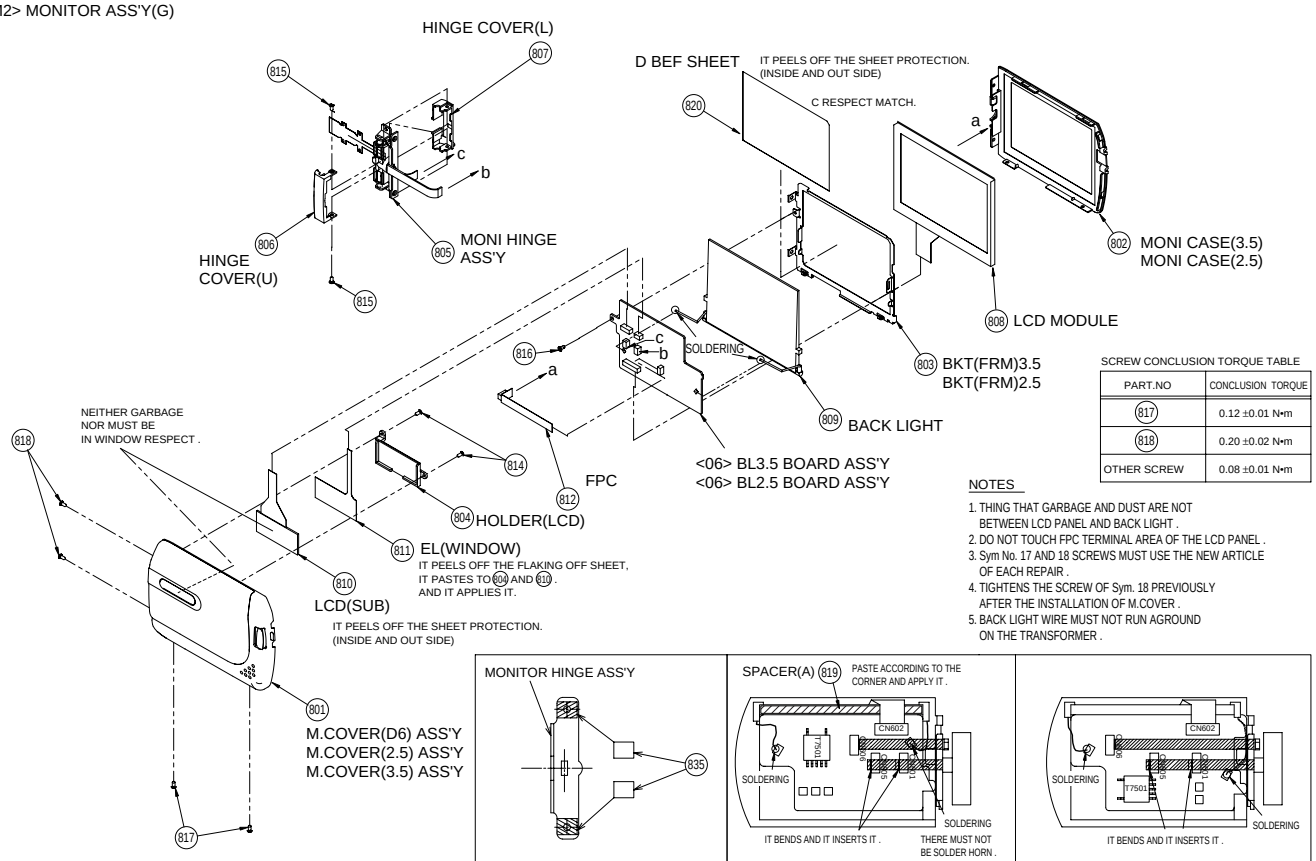

<M2> FINAL ASS'Y
REAR ASS'Y(G)
SHOE ASS'Y(G)
OP FRAME ASS'Y
TABLE OF SETTING TORQUE FOR SCREW DRIVER
PART.NO | SETTING TORQUE
(112) | 0.07 ±0.007 N•m
(121)(126)(127)(128)(132)(133) | 0.10 ±0.010 N•m
OTHER SCREW | 0.08 ±0.008 N•m
PROCESS THIS PART OF DRUM MOTOR FPC TO THE SHIELDING CASE .
FIG.1 DRUM MOTOR FPC PROCESSING CHART
LOWER CASE ASS'Y
S TERMINAL
FIG.2 STOPPER(JACK) INSTALLATION CHART
FRONT ASS'Y(G)
(Refer to the Exploded view for this part.)
COVER(SHOE) ASS'Y
OP FRAME ASS'Y
NOTES
1. BEND FPC , AND PASS THE CORNER HOLE OF THE SHEET METAL .
2. BE CAREFUL NOT TO CUT FPC BY THE SHEET METAL EDGE .
3. NOTE IT EXTERNALS WHERE THE DENT IS NOT IN FPC WITH THE WOUND .
4. DO NOT TOUCH BY THE FINGER TERMINAL AREA OF FPC .
SHOE ASS'Y(G) LYH20612
SHOE ASS'Y
BKT(H.S)
BKT (SHOE MIC)
<02> JACK BOARD ASS'Y
LOWER CASE ASS'Y
(Refer to the Exploded view for this part.)
SHIELD COVER(PR)
SUPPRESS FROM BOTH SIDES OF UPPER AND LOWER FIRMLY, AND TIGHTEN FROM RIGHT SCREW.
<M3> MECHANISM ASS'Y
BASE
REAR ASS'Y(G)
(Refer to the Exploded view for this part.)
UPPER ASS'Y(G)
BKT(MECHA) ASS'Y
<04> PRE/MDA BOARD ASS'Y
<01> MAIN BOARD ASS'Y
REAR ASS'Y(G) LYH20611
PASTE ACCORDING TO THE CORNER OF THIS COIL AND APPLY IT.
FIG-1. SPACER AFFIXATION POSITION
IT MATCHES IT TO THE END FACE OF THE PWB.
IT MATCHES IT TO THE END FACE OF C6202.
C6202
PUT IT SO THAT THE SHEET SHOULD NOT FLOAT, ESPECIALLY, NOTE THE PWB END FACE SIDE.
FIG-2. SHIELD AFFIXATION POSITION
REAR UNIT
SOLDERING
DO NOT PUT EXTERNAL FORCE ON THE FPC ROOT WHEN BENDING IT.
<03> REG BOARD ASS'Y
DO NOT PUT EXTERNAL FORCE ON THE FPC ROOT.
FINAL ASS'Y LYH20608
THE INTERIOR SIDE IS ARM BKT MATCH.
EDGE MATCH OF SCREW.
FIG.3 SPACER(MECHA) INSTALLATION CHART (M3D6L)
THE INTERIOR SIDE IS A CORNER HOLE MATCH OF OP BKT.
PEEL OFF. PASTE A TWO SIDED TAPE, AND APPLY IT.
MATCHING TO EDGE FASE OF MAIN PWB.
FIG.4 SPACER(MECHA) INSTALLATION CHART (M3D4L)
OP FRAME ASS'Y
J2G TYPE
BKT (OP-J2) ASS'Y
SPACER DOSE NOT GO UP PART ⬭ OF BKT.
STICKING AS SHOWN IN FIGURE. (MACHING TO FRONT EDGE.)
OP BLOCK ASS'Y
(Refer to the Exploded view for this part.)
SPACER(A)
SOLDERING
STICKING AS SHOWN IN FIGURE. (MACHING TO LEFT EDGE.)
<10> CCD BOARD ASS'Y
J7C TYPE
BKT(OP-J7) ASS'Y
SPACER(A)
STICKING AS SHOWN IN FIGURE. (MACHING TO FRONT EDGE.)
OP BLOCK ASS'Y
(Refer to the Exploded view for this part.)
BKT(OP-J7)2
BEND
SOLDERING
SPACER(A)
<10> CCD BOARD ASS'Y
<M2>
THE KNOB IS C.COVER SIDE AS SHOWN IN FIGURE.
RATING LABEL
9 mm
1 mm
IN WATCHING, THERE MUST BE NEITHER BENDING OF THE STICKER NOR GREAT MISREGISTRATION.
DRAWING FOR STICKER(C) STICKING
CASSETTE HOUSING
PUSH
A
A SIDE
LABEL AFFIXATION POSITION
CLEANER ASS'Y LYH20604

5.1.3 UPPER ASSEMBLY(G) AND VF ASSEMBLY<M2>


<M2> UPPER ASS'Y(G)
VF ASS'Y
SCREW CONCLUSION TORQUE TABLE
PART.NO | CONCLUSION TORQUE
615 | 0.12 ±0.02 N•m
OTHER SCREW | 0.08 ±0.01 N•m
TABLE OF SETTING SW
MONITOR | CLOSE
VIDEO/MEMORY SW | CAM or VIDEO
3.5 INCH ASSEMBLY
COVER(UPPER) ASS'Y
MONITOR ASS'Y(G) 620
(Refer to the Exploded view for this part.)
VF ASS'Y 621
UPPER CASE ASS'Y 601
SPACER(A) 627
SPACER 625
KNOB(SLIDE) 603
SPEAKER 606
SPACER 626
PLACE SW OF MONITOR PWB AND ATTACH IT AT THE CROWDED POSITION.
IT MATCHES THE CORNER ON THIS DITCH.
IT FIXES AS SHOWN DERECTION. BECAUSE SOLDER IS NOT TOUCHED WITH THE SHEET METAL .
2.5 INCH ASSEMBLY
BKT(HINGE3.5) 604
<07> MONITOR BOARD ASS'Y
FPC MUST PASS THIS PART UNDER .
STIFFING PLATE SIDE
MOUNTAIN FOLDING AS SHOWN AT POSITION
MOUNTAIN FOLDING
VALLEY FOLDING
FPC 607
BKT(HINGE2.5) 604
ARROW DIRECTION CHARACTER APPROVAL
IT AFFIXES IT IN A CENTRAL MATCH .
SHEET(CAUTION)1 618
LABEL(VF) 619
IT SETS THE CORNER TO THE POSITION OF FIGURE. MOREOVER BE CAREFUL NOT TO RUN AGROUND IN THE BOSS.
FIG.1 VF INSTALLATION DETAIL DRAWING
SHEET(HOLD) 912
U.CASE F(VF) 901
U.CASE R(VF) 902
EYE CUP 905
FPC 910
HOLDER(VF) ASS'Y
LEVER (LENS) 904
B.CASE(VF) 903
VIEW A-A
C VF BOARD ASS'Y
LEVER SWITCH 911
LCD MODULE
VF ASS'Y LY21037
2.5 INCH
3.5 INCH
STICKER(A) 624
STICKER(E) 628
IN WATCHING, THERE MUST BE NEITHER BENDING OF THE STICKER NOR GREAT MISREGISTRATION.
FIG.4 DRAWING FOR STICKER(E) STICKING.
RIGHT AND LEFT MATCH: EDGE SIDE MATCH OF BKT(HINGE)
UPPER AND LOWER MATCH: END PART OF DIAMETER OF BKT(HINGE) PUTTING.
632
INSTALLATION CHART OF Sym. 632. (ONLY 2.5 INCH MODEL.)
GET ON ON SPACER SURELY THE BEND PART OF FPC.
* BE NOT CAUGHT TO SPACER OF FPC.
SPACER(A) 622
PROCESS WIRE TO THIS CUTTING LACK .
PASS WIRE THROUGH THIS CUTTING LACK .
PROCESS IT SO THAT THE WIRE SHOULD NOT ENTER THIS DIFFERENCE PART.
SPACER(A) 623
SOLDERING
INSTALLATION CHART OF Sym. 623.
A PUTTING STANDARD POSITION.
(THE EDGE OF POLON IS SET TO AN SIDE (INSIDE) OF THE SHEET METAL.)
SHEET METAL
SPEAKER
MATCH AND PUT THE CENTER.
INSTALLATION CHART OF Sym. 626, 631. (2.5 & 3.5)
FIG.2 SPEAKER WIRE PROCESSING DRAWING
UPPER ASS'Y(G) LYH20610
629
FIG.5 DRAWING FOR SPACER-B STICKING.

5.1.4 MONITOR ASSEMBLY(G)<M4>

<M2> MONITOR ASS'Y(G)



SCREW CONCLUSION TORQUE TABLE

PART.NO	CONCLUSION TORQUE
817	0.12 ±0.01 N•m
818	0.20 ±0.02 N•m
OTHER SCREW	0.08 ±0.01 N•m

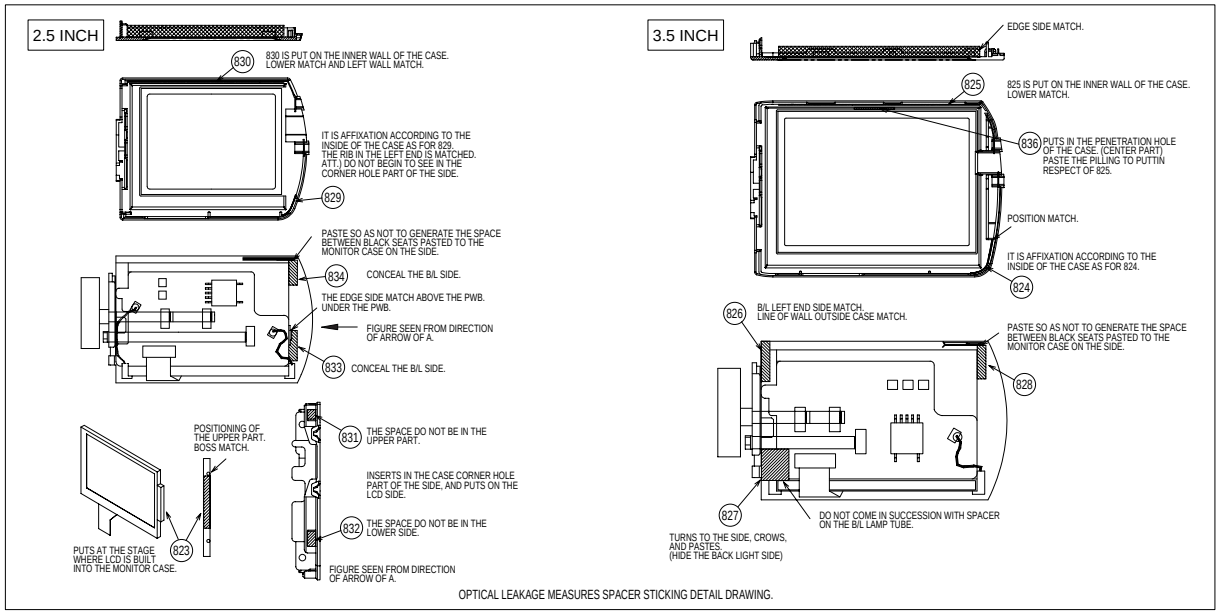
NOTES

1. THING THAT GARBAGE AND DUST ARE NOT BETWEEN LCD PANEL AND BACK LIGHT .
2. DO NOT TOUCH FPC TERMINAL AREA OF THE LCD PANEL .
3. Sym No. 17 AND 18 SCREWS MUST USE THE NEW ARTICLE OF EACH REPAIR .
4. TIGHTENS THE SCREW OF Sym. 18 PREVIOUSLY AFTER THE INSTALLATION OF M.COVER .
5. BACK LIGHT WIRE MUST NOT RUN AGROUND ON THE TRANSFORMER .

FIG-3. DRAWING FOR 835 STICKING.

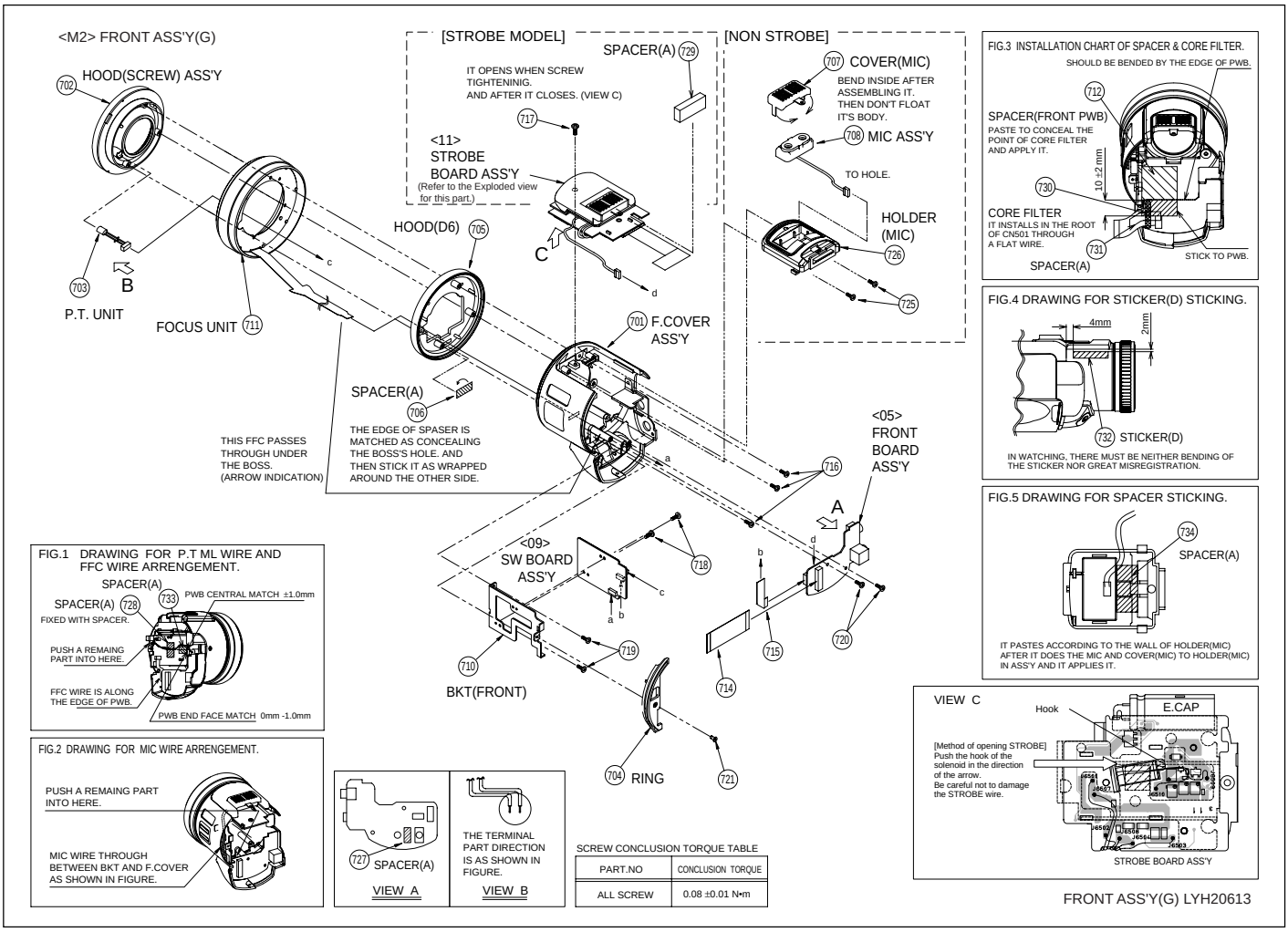
FIG-1. INTERNAL PROCESSING DETAIL DRAWING (3.5 INCH)

FIG-1. INTERNAL PROCESSING DETAIL DRAWING (2.5 INCH)


2.5 INCH
830
830 IS PUT ON THE INNER WALL OF THE CASE. LOWER MATCH AND LEFT WALL MATCH.
IT IS AFFIXATION ACCORDING TO THE INSIDE OF THE CASE AS FOR 829. THE RIB IN THE LEFT END IS MATCHED. ATT.) DO NOT BEGIN TO SEE IN THE CORNER HOLE PART OF THE SIDE.
829
PASTE SO AS NOT TO GENERATE THE SPACE BETWEEN BLACK SEATS PASTED TO THE MONITOR CASE ON THE SIDE.
834
CONCEAL THE B/L SIDE.
THE EDGE SIDE MATCH ABOVE THE PWB. UNDER THE PWB.
FIGURE SEEN FROM DIRECTION OF ARROW OF A.
833
CONCEAL THE B/L SIDE.
POSITIONING OF THE UPPER PART. BOSS MATCH.
831
THE SPACE DO NOT BE IN THE UPPER PART.
INSERTS IN THE CASE CORNER HOLE PART OF THE SIDE, AND PUTS ON THE LCD SIDE.
832
THE SPACE DO NOT BE IN THE LOWER SIDE.
PUTS AT THE STAGE WHERE LCD IS BUILT INTO THE MONITOR CASE.
823
FIGURE SEEN FROM DIRECTION OF ARROW OF A.
3.5 INCH
EDGE SIDE MATCH.
825
825 IS PUT ON THE INNER WALL OF THE CASE. LOWER MATCH.
836
PUTS IN THE PENETRATION HOLE OF THE CASE. (CENTER PART) PASTE THE PILLING TO PUTTIN RESPECT OF 825.
POSITION MATCH.
IT IS AFFIXATION ACCORDING TO THE INSIDE OF THE CASE AS FOR 824.
824
826
B/L LEFT END SIDE MATCH. LINE OF WALL OUTSIDE CASE MATCH.
PASTE SO AS NOT TO GENERATE THE SPACE BETWEEN BLACK SEATS PASTED TO THE MONITOR CASE ON THE SIDE.
828
827
DO NOT COME IN SUCCESSION WITH SPACER ON THE B/L LAMP TUBE.
TURNS TO THE SIDE, CROWS, AND PASTES. (HIDE THE BACK LIGHT SIDE)

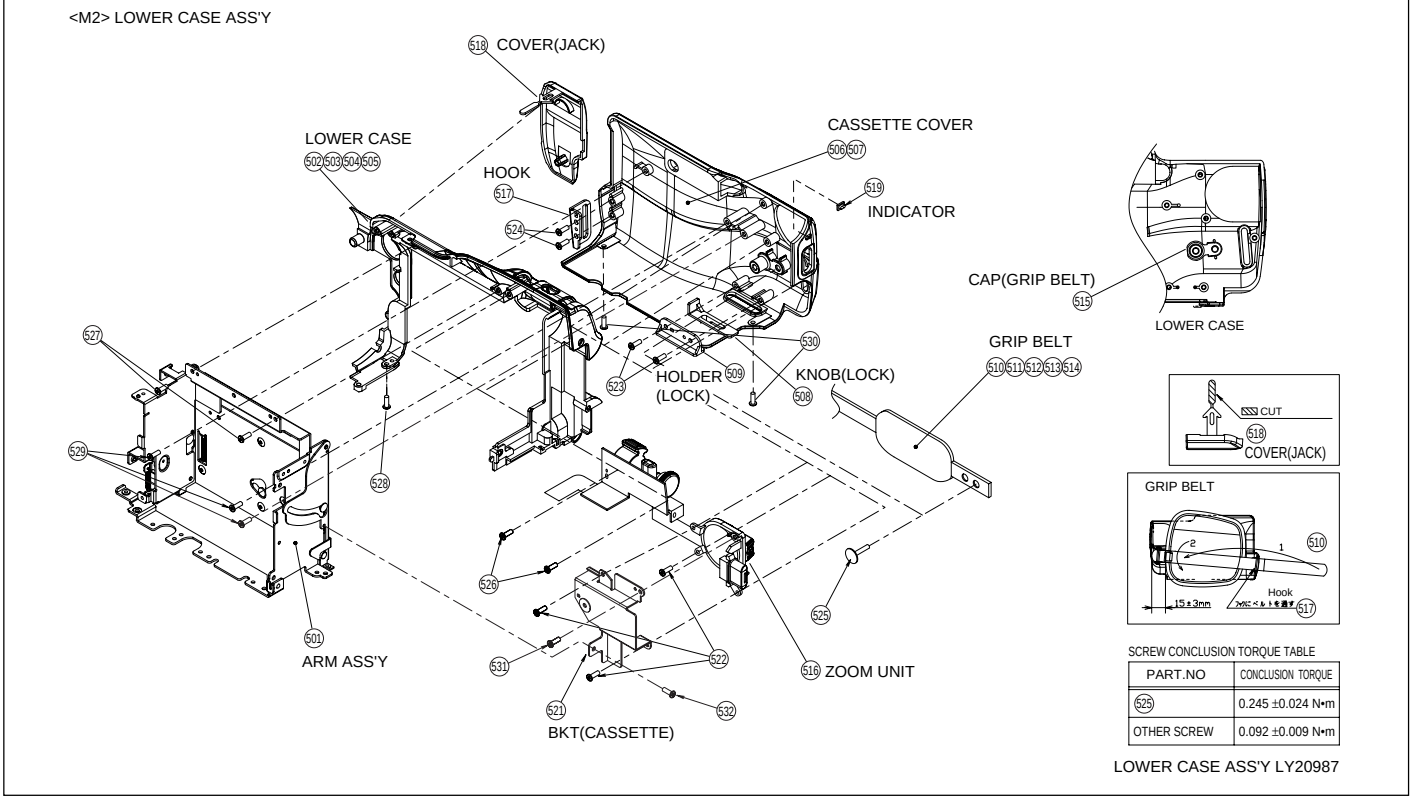
OPTICAL LEAKAGE MEASURES SPACER STICKING DETAIL DRAWING.

5.1.5 FRONT ASSEMBLY(G)<M2>



FRONT ASS'Y(G) LYH20613

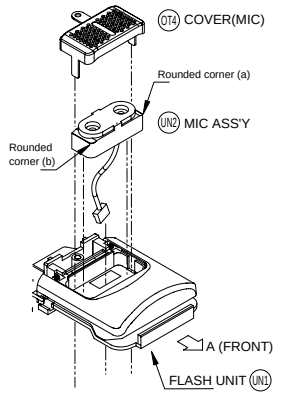
5.1.6 LOWER CASE ASSEMBLY<M2>

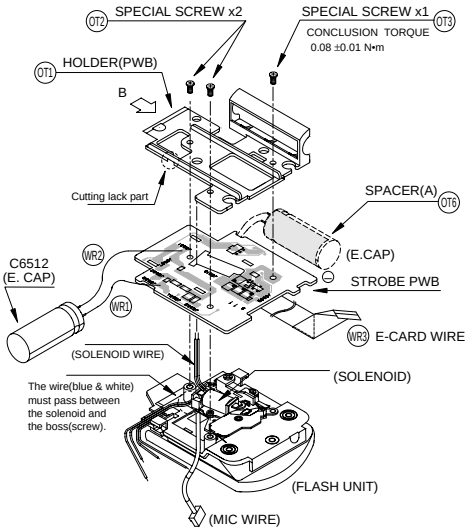


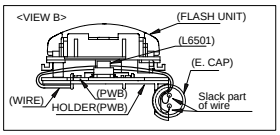
LOWER CASE ASS'Y LY20987

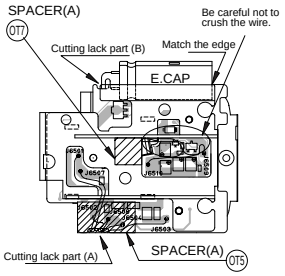
5.1.7 STROBE BOARD ASSEMBLY<11>

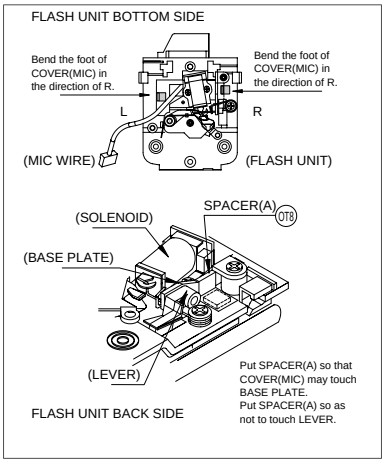
<11> STROBE BOARD ASS'Y

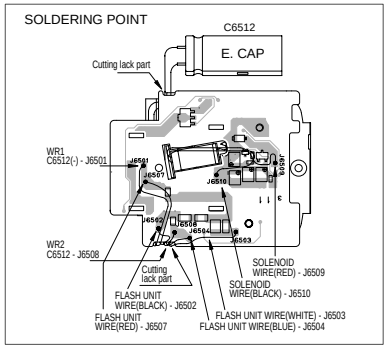


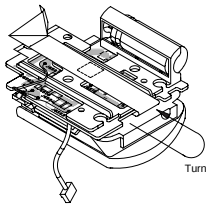







FLASH UNIT BOTTOM SIDE
Bend the foot of COVER(MIC) in the direction of R.
Bend the foot of COVER(MIC) in the direction of R.
L
R
(MIC WIRE)
(FLASH UNIT)
(SOLENOID)
SPACER(A) OT8
(BASE PLATE)
(LEVER)
Put SPACER(A) so that COVER(MIC) may touch BASE PLATE.
Put SPACER(A) so as not to touch LEVER.
FLASH UNIT BACK SIDE



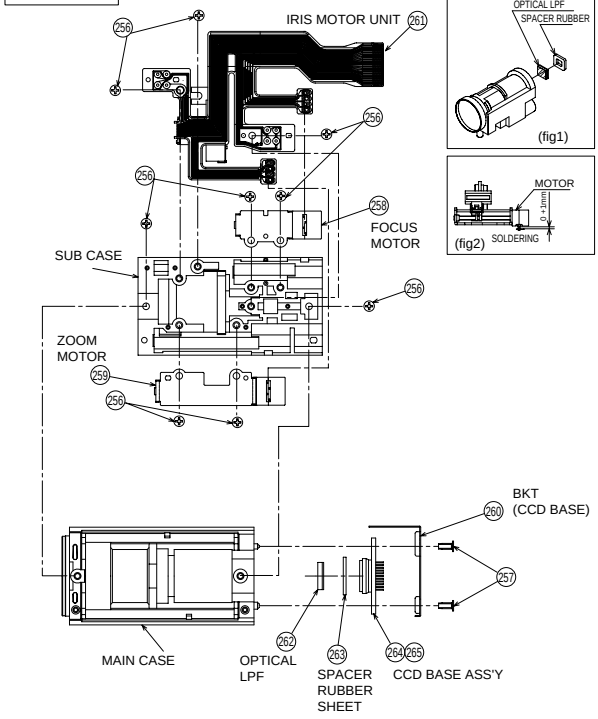


STROBE BOARD ASS'Y YBS20949

5.1.8 OP BLOCK ASSEMBLY<M2> [J2G(F1.2 LENS) / J7C(F1.8 LENS)]

<M2> OP BLOCK ASS'Y

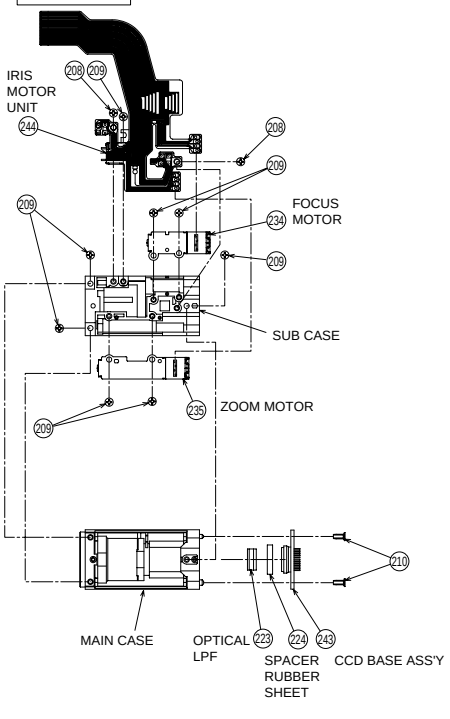
J2G TYPE

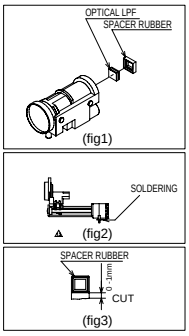


OP BLOCK ASS'Y LYH20637

<M2> OP BLOCK ASS'Y

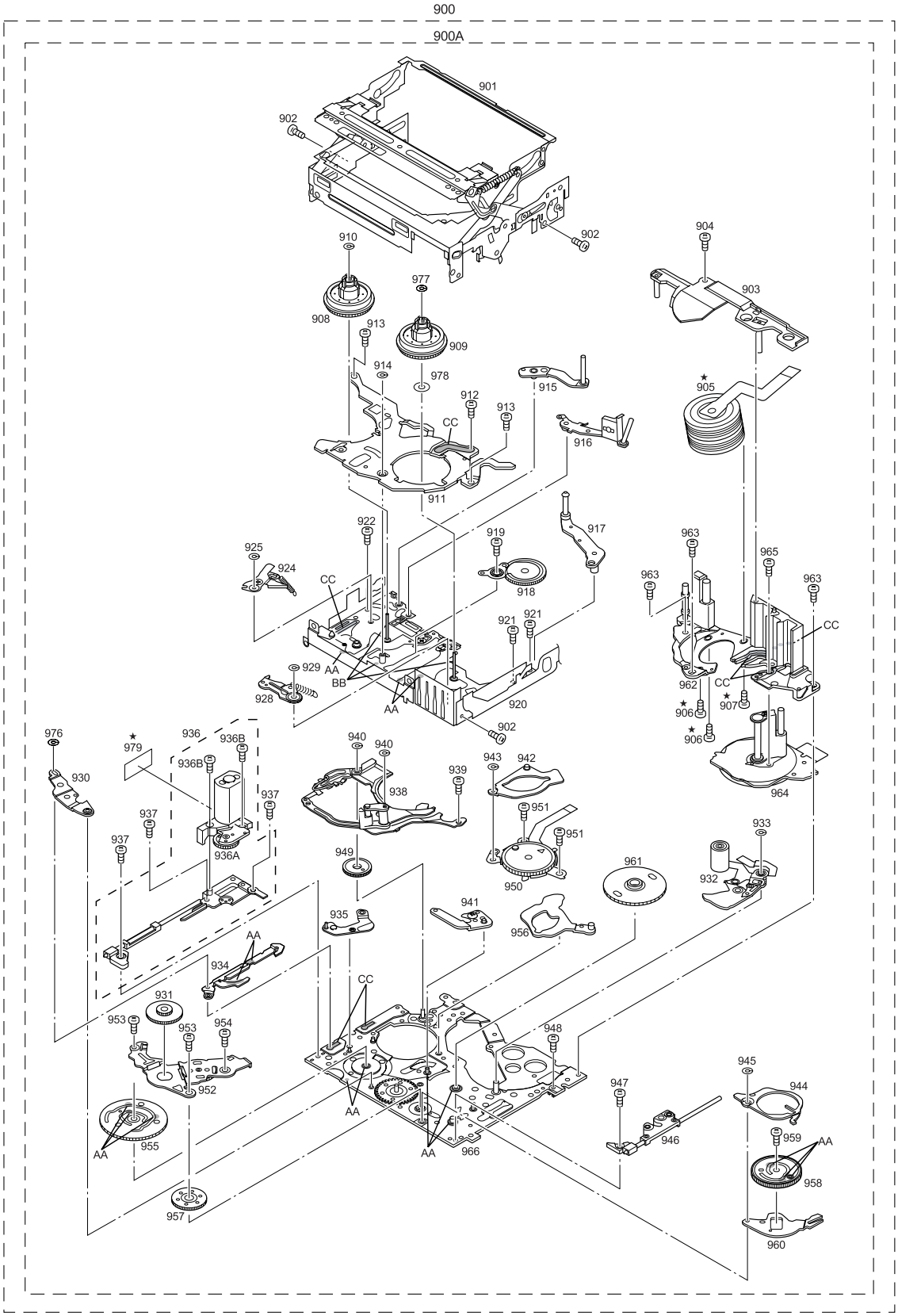
J7C TYPE





OP BLOCK ASS'Y LYH20156

5.1.9 MECHANISM ASSEMBLY <M3>



Classification	Part No.	Symbol in drawing
Grease	KYODO-SH-JB	AA
Oil	YTU94027	BB
Grease (HANARL)	RX-410R	CC

NOTE1: The section marked in **AA** and **BB**, **CC** indicate lubrication and greasing areas.

NOTE2: Mark ⋆ is not contained in 900A.

5.2 PARTS LIST

MODEL	MARK	MODEL	MARK
GR-DV4000EK	A	GR-DV4000EY	C
GR-DV4000EX	B	GR-DV4000EZ	D

PACKING AND ACCESSORY ASSEMBLY<M1>

#	⚠	REF No.	PART No.	PART NAME, DESCRIPTION
		002	LY33436-001A	PACKING CASE
		003	LY20996-001B	CUSHION
	⚠	004	LY32566-001A	BATT.PACK ASSY,BN-V408U-B
		005	LY20186-004A	SHOULDER STRAP
		006	LY20750-001A	REMOTE CTL UNIT,RM-V717U
		007	LY32210-054A	CD ROM ASSY
		009	QPA02503505P	POLY BAG,ACC.
		014	LY30023-028A	POLY BAG
		020	QAM0302-001	ADAPTOR PLUG,PERI-RCAS
		041	YQM30061-3	POLY BAG,DOCUMENT,A
		041	QPA02003506	POLY BAG,DOCUMENT,B,C,D
	⚠	042	LYT1129-001A	IB(EN),A
	⚠	042	LYT1129-002A	IB(GE),B,C
	⚠	042	LYT1129-003A	IB(FR),B
	⚠	042	LYT1129-004A	IB(DU),B
	⚠	042	LYT1129-005A	IB(SP),B
	⚠	042	LYT1129-006A	IB(IT),B
	⚠	042	LYT1129-007A	IB(DA),C
	⚠	042	LYT1129-008A	IB(FI),C
	⚠	042	LYT1129-009A	IB(SW),C
	⚠	042	LYT1129-010A	IB(NO),C
	⚠	042	LYT1129-011A	IB(RU),D
	⚠	042	LYT1129-012A	IB(CZ),D
	⚠	042	LYT1129-013A	IB(PO),D
	⚠	042	LYT1129-014A	IB(HU),D
		046	LYT1111-001A	IB(SOFT.EN),A
		046	LYT1111-002A	IB(SOFT.GE),B,C
		046	LYT1111-003A	IB(SOFT.FR),B
		046	LYT1111-004A	IB(SOFT.DU),B
		046	LYT1111-005A	IB(SOFT.SP),B
		046	LYT1111-006A	IB(SOFT.IT),B
		046	LYT1111-007A	IB(SOFT.DA),C
		046	LYT1111-008A	IB(SOFT.FI),C
		046	LYT1111-009A	IB(SOFT.SW),C
		046	LYT1111-010A	IB(SOFT.NO),C
		046	LYT1111-011A	IB(SOFT.RU),D
		048	YU30878	REGIST. CARD,A
		049	LYT0194-001B	Q.CARD(JUK),A
		050	LYT1129-015A	SHEET(ATT.)
		064	BT-54013-5	WARRANTY CARD,B,C,D
		065	BT-54008-4	GUARANTY CARD,A
		071	QPA01703005	POLY BAG,CABLE
		072	QAM0347-001	A/V CABLE
		073	QQR0918-002	CORE FILTER,AV 1T
		074	LY32430-004A	HOOD CAP ASSY
		077	QAM0451-001	USB CABLE,USB
		078	QQR0491-002	CORE FILTER,USB 1T
		079	PEAC0428-150	CABLE ASSY,EDIT 2-2
		080	QQR0491-002	CORE FILTER,EDIT 2T
		081	———	BATTERY,X2
		082	QAM0213-001	AUDIO CABLE,HP
		083	QQR0917-002	CORE FILTER,HP 2TURN
	⚠	085	LY20591-004C	BATT.CHARG.ASSY,AA-V40EK,A
	⚠	085	LY20591-003E	BATT.CHARG.ASSY,AA-V40EG,B,C,D
		086	QAM0432-001	DC CABLE
		087	LY44207-002A	LABEL(CAUTION)
		091	QAM0213-001	AUDIO CABLE,MIC
		092	QQR0917-002	CORE FILTER,MIC 2TURN
		093	QQR0917-002	CORE FILTER,DC 1TURN
		095	QQR0918-002	CORE FILTER,S 2TURN

FINAL ASSEMBLY<M2>

#	⚠	REF No.	PART No.	PART NAME, DESCRIPTION
		102	LY20987-002C	LOWER CASE ASSY
		103	LY31984-001B	BASE
		104	LY33552-001A	COVER(SHOE)ASSY,A
		104	LY33552-001B	COVER(SHOE)ASSY,B,C,D
		105	LY33215-001A	BKT(MECHA)ASSY
		106	LY33216-001A	BKT(OP-J2)ASSY
		107	LY30030-053A	SPACER(A)
		108	LY33220-001A	SHIELD COVER(PR
		109	LY30018-006B	SPECIAL SCREW,X2,JACK-ARM
		110	LY30019-028A	SPECIAL SCREW,X3,BKTME-MECH
		111	LY30018-006B	SPECIAL SCREW,MDA-BKTME
		112	QYSPSPT1414M	SCREW,X2,MECHA-PRE 1.4mmx1.4mm
		113	LY30018-006B	SPECIAL SCREW,X3,BKTME-ARM
		114	LY30018-017A	SPECIAL SCREW,LC-BKTME
		115	LY30018-006B	SPECIAL SCREW,X2,ARM-BASE
		116	LY42424-001A	SPECIAL SCREW,MAINP-BKT
		117	LY30019-014A	SPECIAL SCREW,MAINP-BKT
		118	LY30019-029B	SPECIAL SCREW,X2,OPBKT-OP
		119	LY30018-091A	SPECIAL SCREW,OPBKT-ARM
		120	LY30018-084A	SPECIAL SCREW,OPBKT-LC
		121	LY30018-0J9A	SPECIAL SCREW,X2,RC-ARM
		122	LY30018-0G6A	SPECIAL SCREW,RC-LC
		123	LY30018-0G6A	SPECIAL SCREW,FC-LC
		124	LY30018-059A	SPECIAL SCREW,COVIR-LC
		125	LY30018-006B	SPECIAL SCREW,COVIR-ARM
		126	LY30018-059A	SPECIAL SCREW,BKTSHOE-LC
		127	LY30018-047A	SPECIAL SCREW,X4,UC-BASE
		128	LY30018-0A1A	SPECIAL SCREW,UC-BKTHIN
		129	LY30018-032A	SPECIAL SCREW,UC-RC
		130	LY30018-006B	SPECIAL SCREW,UC-DV
		131	LY30018-006B	SPECIAL SCREW,LC-BKTSHOE
		132	LY30018-075A	SPECIAL SCREW,COVSH-BKTS
		133	LY30018-084A	SPECIAL SCREW,COVSH-FC
		134	LY30018-0G6A	SPECIAL SCREW,REAR-LOWER
		135	LY30018-0G6A	SPECIAL SCREW,LOWER-REAR
		143	J2G-101A	OP BLOCK ASS'Y
		145	LYH20611-003C	REAR ASSY(G)
		146	LYH20613-005B	FRONT ASSY(G)
		147	LYH20612-002A	SHOE ASSY(F)
		148	LYH20610-009A	U.CASE ASSY(G)
		149	LY30030-079A	SPACER(A)
		151	LY33451-001B	STOPPER(JACK)
		152	LY30018-084A	SPECIAL SCREW,STP-LC
		153	LY44240-001B	SPACER(MECHATOP
		184	LY33213-001A	COVER(ADJUST)
		185	LY33214-001A	COVER(JIG)
		186	LY40699-002A	LABEL(PUSH)
		187	LY32001-002A	LABEL(HOUSING)
		188	LY30018-0J8A	SPECIAL SCREW,JIG
		189	LY30018-0J8A	SPECIAL SCREW,COVAD-CASS
		190	QAM0342-002	MEMORY CARD,SD 8MB*
		191	LY33203-002A	HOOD(ACC)ASSY

*NOTE :
DATA FILE is not contained in MEMORY CARD of the service part.

OP BLOCK ASSEMBLY<M2>

#	⚠	REF No.	PART No.	PART NAME, DESCRIPTION
		256	LY30727-002A	TAP SCREW,X9

MODEL	MARK	MODEL	MARK
GR-DV4000EK	A	GR-DV4000EY	C
GR-DV4000EX	B	GR-DV4000EZ	D

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION
257	QYSPSGU1750Z	TAP SCREW,X2
258	LY33303-001A	FOCUS MOTOR
259	LY33302-001A	ZOOM MOTOR
260	LY33410-001A	BKT(CCD BASE)
261	LY33304-001B	IRIS MOTOR UNIT
262	LY44069-001A	OPTICAL LPF
263	LY43494-001A	SHEET
264	LYH30375-008A	CCD BASE ASS'Y

REAR ASSEMBLY(G)<M2>

281	LY21007-002C	REAR UNIT
282	LY30030-065A	SPACER(A),REG PWB
283	LY30030-058B	SPACER(A),B TO B
284	LY30018-006B	SPECIAL SCREW,X2,PWB-REAR
285	LY30018-084A	SPECIAL SCREW,X3,PWB-REAR
287	LY44264-001A	SHIELD(REG),REG PWB

SHOE ASSEMBLY(G)<M2>

291	LY33207-001B	SHOE ASSY
292	LY33208-001B	BKT(H.S)
293	LY30018-006B	SPECIAL SCREW,X4,BKT-SHOE
294	LY33468-001A	BKT(SHOE MIC)

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LOWER CASE ASSEMBLY<M2>

501	LY20988-001B	ARM ASSY
502	LY10433-002B	LOWER CASE
506	LY10434-002A	CASSETTE COVER
508	LY33369-001A	KNOB(LOCK)
509	LY33370-001A	HOLDER(LOCK)
510	LY20991-002A	GRIP BELT
515	LY40592-001A	CAP(GRIP BELT)
516	LY10435-001B	ZOOM UNIT
517	LY44037-001A	HOOK
518	LY33178-001A	COVER(JACK)
519	LY33463-001A	INDICATOR
521	LY33443-001A	BKT(CASSETTE)
522	LY30018-0G2A	SPECIAL SCREW,X3,ZOOM-CASS
523	LY30018-084A	SPECIAL SCREW,X2,HOLD-CASS
524	QYSLSF2055D	TAP SCREW,X2,HOOK-CASS
525	LY30018-0D1A	SPECIAL SCREW,GRIP-CASS
526	LY30018-084A	SPECIAL SCREW,X2,ZOOM-LOWER
527	LY30018-0G2A	SPECIAL SCREW,X2,ARM-LOWER
528	LY30018-0K6A	SPECIAL SCREW,LOWER-ARM
529	LY30018-084A	SPECIAL SCREW,X3,ARM-CASS
530	LY30018-0K6A	SPECIAL SCREW,X2,CASS-ARM
531	LY30018-092A	SPECIAL SCREW,BKT-ZOOM
532	LY30018-0K6A	SPECIAL SCREW,BKT-ARM

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UPPER ASSEMBLY<M2>

601	LY20999-002B	UPPER CASE ASSY
602	LY33231-001B	COVER(UPPER)AS
603	LY33048-001A	KNOB(SLIDE)
604	LY33181-001A	BKT(HINGE3.5)
606	QAS0127-001	SPEAKER
607	QAL0468-001	FPC,MPWB-MAIN
608	LY30018-057A	SPECIAL SCREW,X2,UC-BKTHIN
609	LY30018-063A	SPECIAL SCREW,X6,MPWB-UC
610	LY30018-063A	SPECIAL SCREW,X2,BKTHIN-UC
611	LY30018-070A	SPECIAL SCREW,VF-BKTHIN
612	LY30018-070A	SPECIAL SCREW,MPWB-BKTHI
613	LY30018-070A	SPECIAL SCREW,X2,COVUP-BKT
614	LY30018-063A	SPECIAL SCREW,X2,FPC-UC
615	LY30018-028A	SPECIAL SCREW,X2,HIN-BKTHIN
616	LY30018-032A	SPECIAL SCREW,UC-VF
618	LY41701-004A	SHEET(CAUTION)1
619	LY43041-001A	LABEL(VF)
620	LYH20609-006A	MONITOR ASSY(G)
621	LY21037-001C	VF ASSY
622	LY30029-0W4A	SPACER(A),SPEAKER2
623	LY30029-0W4A	SPACER(A),SPEAKER
624	LY44203-002A	STICKER(A)
625	LY44241-001A	SPACER
626	LY44259-001A	SPACER
627	LY30030-0E8A	SPACER(A)
631	LY44317-001A	SHEET(GROUND)

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FRONT ASSEMBLY(G)<M2>

701	LY33180-007E	F.COVER ASSY
702	LY33197-001A	HOOD(SCREW)ASSY
703	LY33198-001A	P.T.UNIT
704	LY33189-001B	RING
705	LY33199-001A	HOOD(D6)
706	LY30030-052A	SPACER(A)
710	LY33192-001A	BKT(FRONT)
711	LY33201-001B	FOCUS UNIT
712	LY44231-001A	SPACER,FRONT PWB
714	WJT0092-001A	E-CARD WIRE,FRONT-MAIN
715	WJT0093-001A	E-CARD WIRE,FRONT-SW
716	LY30018-0J6A	SPECIAL SCREW,X3,FRT-HOOD
717	LY30018-0J8A	SPECIAL SCREW,FLASH-FRT
718	LY30018-006B	SPECIAL SCREW,X2,SPWB-BKTF
719	LY30018-059A	SPECIAL SCREW,X2,BKTF-FRT
720	LY30018-059A	SPECIAL SCREW,X2,FPWB-COV
721	LY30018-006B	SPECIAL SCREW,RING-BKTF
728	LY30029-0W4A	SPACER(A),P.T WIRE
729	LY30030-0B6A	SPACER(A)
730	QQR1290-001	CORE FILTER,FRONT-MAIN
731	LY30029-0W4A	SPACER(A),FRONT-MAIN
732	LY44206-001A	STICKER(D)
733	LY30030-0F1A	SPACER(A)

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MONITOR ASSEMBLY(G)<M2>

801	LY21005-002C	M.COVER(D6)ASSY
802	LY10443-001B	MONI CASE(3.5)
803	LY21004-001A	BKT(FRM)3.5
804	LY33241-001A	HOLDER(LCD)
805	LY33236-001B	MONI HINGE ASSY
806	LY33237-003B	HINGE COVER(U)
807	LY33238-001A	HINGE COVER(L)
808	QLD0268-001	LCD MODULE
809	QLL0148-001	BACK LIGHT
810	LY33300-001A	LCD(SUB)

MODEL	MARK	MODEL	MARK
GR-DV4000EK	A	GR-DV4000EY	C
GR-DV4000EX	B	GR-DV4000EZ	D

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
811	LY33301-001A	EL(WINDOW)	
812	QAL0483-001	FPC	
814	LY30018-063A	SPECIAL SCREW,X2,HOLD-MC	
815	LY30018-060A	SPECIAL SCREW,X2,HC-HINGE	
816	LY30018-056A	SPECIAL SCREW,PWB-BKT	
817	LY30018-056A	SPECIAL SCREW,X2,CO-CA-BKT	
818	LY30018-028A	SPECIAL SCREW,X2,MON-HINGE	
819	LY30030-075A	SPACER(A)	
820	LY44197-001A	D BEF SHEET	
824	LY30030-0H1A	SPACER(A)	
825	LY44308-001A	SPACER	
826	LY30030-0G4A	SPACER(A)	
827	LY30030-0G6A	SPACER(A)	
828	LY30030-0K4A	SPACER(A)	
835	LY30030-0K3A	SPACER(A),X2	
836	LY33448-004A	SPACER(VF)	

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VF ASSEMBLY<M2>

901	LY21009-001A	U.CASE.F(VF)	
902	LY21010-001A	U.CASE.R(VF)	
903	LY21008-001A	B.CASE(VF)	
904	LY33006-001C	LEVER(LENS)	
905	LY33250-001A	EYE CUP	
906	LY33255-001C	HOLDER(VF)ASSY	
907	LY30019-050A	SPECIAL SCREW,X2,EYE CUP	
908	LY30018-059A	SPECIAL SCREW,B.C-H.LCD2	
909	LY30018-0K4A	SPECIAL SCREW,FPC-HOLDER	
910	QAL0469-001	FPC	
911	NSW0200-001X	LEVER SWITCH	
912	LY44144-001A	SHEET(HOLD)	
913	LY30018-0K5A	SPECIAL SCREW,X2,B.C-G.LENS	
928	LY30018-0G6A	SPECIAL SCREW,X2,B.C-U.C(R)	
931	LY30018-0K4A	SPECIAL SCREW,X2,U.C-HINGE	
932	LY30018-0G6A	SPECIAL SCREW,X2,B.C-U.C(F)	

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MECHANISM ASSEMBLY<M3>

900	YMA0029H	MECHA(A)ASSY	
900A	YMA0029D	MECHA(A)ASSY	
901	LY32870-001G	CASSETTEHOUSING ASSY	
902	YQ43893-8	MINI SCREW	(x3)
903	LYH30420-001A	UPPER BASE ASSY	
904	QYSPSPU1425M	SCREW	
905	YDV2102B	DRUM ASSY	
906	LY42820-001A	DAMP.SCREW ASSY	(x2)
907	LY42820-002A	DAMP.SCREW ASSY	
908	LY31538-001F	REEL DISK ASSY	
909	LY31538-002H	REEL DISK ASSY	
910	YQ44246	SLIT WASHER	
911	LY10372-001D	REEL COVER ASSY	
912	LY42120-002A	MINI SCREW	
913	LY41945-003A	MINI SCREW	(x2)
914	YQ44246	SLIT WASHER	
915	LY43725-001D	TENSION ARM ASSY	
916	LYH40269-001A	SLANT POLE ARM ASSY	
917	LY43731-001F	TU ARM ASSY	
918	LY31531-001D	SWING ARM ASSY	
919	YQ43893	MINI SCREW	
920	LYH30424-001A	SLIDE DECK FINAL ASSY	
921	YQ43893	MINI SCREW	(x2)
922	LY43023-001A	MINI SCREW	
924	LYH30419-001A	PAD ARM ASSY	
925	YQ44246	SLIT WASHER	
928	LYH40270-001A	TU BRAKE ASSY	
929	YQ44246	SLIT WASHER	
930	LY43684-001A	TENSION CONTROL LEVER ASSY	
931	LY32861-001A	CENTER GEAR	
932	LY31516-001F	PINCH ROLLER ARM FINAL ASSY	
933	YQ44246	SLIT WASHER	
934	LY43681-001A	TENSION CONTROL PLATE ASSY	
935	LY43687-001A	BRAKE CONTROL LEVER ASSY	
936	LYH30421-001A	MOTOR BRACKET ASSY	
936A	QAR0138-001	LOADING MOTOR	
936B	LY41940-001A	TAPPING SCREW	(x2)
937	YQ43893	MINI SCREW	(x3)
938	LYH30422-001A	GUIDE RAIL ASSY	
939	YQ43893	MINI SCREW	
940	YQ44246	SLIT WASHER	(x2)
941	LY32843-001A	SLIDE LEVER2 ASSY	
942	LY43690-001A	LOADING PLATE ASSY	
943	YQ44246	SLIT WASHER	
944	LY32858-001A	EJECT LEVER	
945	YQ44246	SLIT WASHER	
946	LYH40271-001A	BASE R ASSY	
947	YQ43893	MINI SCREW	
948	LY41945-001B	MINI SCREW	
949	LY43665-001A	MODE GEAR	
950	QSW0876-003	ROTARY ENCODER	
951	YQ43893	MINI SCREW	(x2)
952	LY32860-001A	GEAR COVER ASSY	
953	YQ43893	MINI SCREW	(x2)
954	YQ43893-4	MINI SCREW	
955	LY43676-001A	MAIN CAM ASSY	
956	LY41941-001B	SLIDE ARM ASSY	
957	LY43678-001A	CONNECT GEAR 2	
958	LY41954-001C	SUB CAM ASSY	
959	LY42120-001A	MINI SCREW	
960	LY43692-001A	CONTROL ARM ASSY	
961	LY32859-001A	REEL GEAR 1	
962	LY31508-002B	DRUM BASE ASSY	
963	QYSPSPU1425M	SCREW	1.4mm x 2.5mm(x3)
964	QAR0142-001	CAPSTAN MOTOR	
965	YQ43893	MINI SCREW	
966	LY10367-001D	MAIN DECK ASSY	
976	YQ44246	SLIT WASHER	
977	YQ44246-6	SLIT WASHER	
978	LY42047-005A	WASHER	
979	LY43987-001B	SPACER	

MODEL	MARK	MODEL	MARK
GR-DV4000EK	A	GR-DV4000EY	C
GR-DV4000EX	B	GR-DV4000EZ	D

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION

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MAIN BOARD ASSEMBLY <01>

PW1	YB10434PA-03	MAIN PWB ASS'Y
IC1001	UPD703038F1-A15	IC(MICRO C ROM),CAM CPU
IC1001 or	UPD70F3038F1A15	IC(MICRO C ROM),CAM CPU
IC1002	RS5C314-X	IC
IC1003	X25330S8I-2.5-X	IC
IC1003 or	25LC320-I/SN-X	IC
IC1003 or	AT25320N-10SI-X	IC
IC1003 or	M95320-WMN6-X	IC
IC1003 or	CAT25C32SI-X	IC
IC1006	MB90097PFV149-X	IC(MICRO C ROM),MB90099
IC1007	SN74AHC1G08K-X	IC
IC1008	74HC2G08DP-X	IC
IC1009	IC-PST3423U-X	IC
IC1009 or	S-80823CNNB-X	IC
IC1012	74HC4053PW-X	IC
IC1401	UPD703040YF-M20	IC(MICRO C ROM),DECK MASK
IC1401 or	UPD70F3040YFM20	IC(MICRO C ROM),DECK FLASH
IC1401 or	UPD703040YFM20B	IC(MICRO C ROM),PP ONLY
IC2101	AK4550VT-X	IC
IC2201	AK4564VQ	IC,48P0.5
IC3001	JCY0152	IC
IC3002	JCY0174-X	IC
IC3003	SN74AHC1G04K-X	IC
IC3701	BA7665FS-X	IC
IC3701 or	BA7665AFS-X	IC
IC3731	MM1504XN-X	IC
IC3801	JCP8045	IC(DIGITAL)
IC3802	SN74AHC1G04K-X	IC
IC3901	BU2501FV-X	IC
IC4201	HD49340HNP-X	IC,CDS/AD
IC4202	MM1613BN-X	IC,REG3.1V
IC4301	JCY0183	IC,CAMERA DSP
IC4302	R1160N121B-X	IC,REG1.2V
IC4802	NJM2143R-X	IC,HALL AMP+
IC4803	NJM2143R-X	IC,HALL AMP-
IC4804	NJM3414AV-X	IC,DRIVE AMP
IC4805	MM6564XFBE-X	IC,DAMPER
IC4851	UPD16879GS-X	IC,F/Z_MDA
IC5001	CXD3602AR	IC,TG/VDR
IC5002	W194-70G-X	IC,CLK72
IC5003	MM1613DN-X	IC,REG3.3V
IC6601	TC7W74FU-X	IC(DIGITAL)
IC6601 or	TC7WH74FU-X	IC(DIGITAL)
IC6602	BA10358FVM-W	IC
IC8001	TMS320DSC24GHK	IC,DSC24
IC8001 or	TMX320DSC24GHK	IC,DSC24X
IC8002	K4S643233F-SE75	IC,64MSDRAM
IC8003	MBV160TE90PBA11	IC(MICRO C ROM),16MFLASH
IC8003 or	MR27T1602F1G0LA	IC(MICRO C ROM),OTP
IC8004	BU2288FV-X	IC,FS PLL
IC8301	ISP1181ABS	IC,USBQNFμ2.6
IC8302	S-80842CNNB-W	IC
IC8501	MN5774	IC
Q1001	DTC124EE-X	DIGI TRANSISTOR
Q1002	2SC4617/QR/-X	TRANSISTOR
Q1003	DTC143EE-X	DIGI TRANSISTOR
Q1004	DTC143XE-X	DIGI TRANSISTOR
Q1007	DTC143XE-X	DIGI TRANSISTOR
Q1401	DTA114EE-X	DIGI TRANSISTOR,MIC CTL
Q1401 or	RN2102-X	DIGI TRANSISTOR
Q1401 or	PDTA114EE-X	DIGI TRANSISTOR
Q1401 or	UN9111J-X	DIGI TRANSISTOR
Q1402	UMC3N-W	DIGI TRANSISTOR,REEL LED
Q1403	UMC3N-W	DIGI TRANSISTOR,TAPE LED
Q2202	DTC144EE-X	DIGI TRANSISTOR
Q2202 or	UN9213J-X	DIGI TRANSISTOR
Q2202 or	PDTC144EE-X	DIGI TRANSISTOR
Q2401	2SC4617/QR/-X	TRANSISTOR
Q2402	2SC4617/QR/-X	TRANSISTOR
Q2403	2SC4617/QR/-X	TRANSISTOR
Q2601	2SC5585-X	TRANSISTOR,ZMIC_ATT
Q2602	2SC5585-X	TRANSISTOR,ZMIC_ATT
Q2701	UMX1N-W	PAIR TRANSISTOR
Q2702	UMX1N-W	PAIR TRANSISTOR
Q2901	2SB1188/QR/-W	TRANSISTOR
Q2902	DTC144EE-X	DIGI TRANSISTOR
Q2902 or	UN9213J-X	DIGI TRANSISTOR
Q2902 or	RN1104-X	DIGI TRANSISTOR
Q2902 or	PDTC144EE-X	DIGI TRANSISTOR
Q3701	UMT1N-W	PAIR TRANSISTOR
Q3701 or	XP4401-W	TRANSISTOR
Q3702	UMZ1N-W	PAIR TRANSISTOR
Q3702 or	XP4601-W	TRANSISTOR
Q3704	2SA1774/RS/-X	TRANSISTOR
Q3705	UMT1N-W	PAIR TRANSISTOR
Q3705 or	XP4401-W	TRANSISTOR
Q3731	2SC4617/RS/-X	TRANSISTOR
Q3731 or	2SD2216J/RS/-X	TRANSISTOR
Q3732	DTC144EE-X	DIGI TRANSISTOR
Q3732 or	UN9213J-X	DIGI TRANSISTOR
Q3732 or	RN1104-X	DIGI TRANSISTOR
Q3732 or	PDTC144EE-X	DIGI TRANSISTOR
Q3733	UMZ1N-W	PAIR TRANSISTOR
Q3733 or	XP4601-W	TRANSISTOR
Q3734	2SC4617/RS/-X	TRANSISTOR
Q3734 or	2SD2216J/RS/-X	TRANSISTOR
Q3735	UMZ1N-W	PAIR TRANSISTOR
Q3735 or	XP4601-W	TRANSISTOR
Q4801	2SC4655/BC/-X	TRANSISTOR,HALL DRIVE
Q4802	2SC4617/RS/-X	TRANSISTOR,DRIVE-
Q4803	DTC144EE-X	DIGI TRANSISTOR,SS MINI
Q4803 or	RN1104-X	DIGI TRANSISTOR,SS MINI
Q4803 or	PDTC144EE-X	DIGI TRANSISTOR,SS MINI
Q4803 or	UN9213J-X	DIGI TRANSISTOR,SS MINI
Q4804	DTA144EE-X	DIGI TRANSISTOR,SS MINI
Q4804 or	RN2104-X	DIGI TRANSISTOR,SS MINI
Q4804 or	PDTA144EE-X	DIGI TRANSISTOR,SS MINI
Q4804 or	UN9113J-X	DIGI TRANSISTOR,SS MINI
Q4805	2SC4617/RS/-X	TRANSISTOR,SS MINI
Q4806	2SA1774/QR/-X	TRANSISTOR
Q4851	2SC4617/RS/-X	TRANSISTOR
Q6601	DTC144EE-X	DIGI TRANSISTOR
Q6601 or	RN1104-X	DIGI TRANSISTOR
Q6601 or	UN9213J-X	DIGI TRANSISTOR
Q6601 or	PDTC144EE-X	DIGI TRANSISTOR
Q6602	UMS1N-W	PAIR TRANSISTOR
Q6611	2SA1774/RS/-X	TRANSISTOR
Q6612	UMS1N-W	PAIR TRANSISTOR
Q6613	2SC4617/RS/-X	TRANSISTOR
Q6614	RN1702-X	DIGI TRANSISTOR
Q6615	UMC4N-W	DIGI TRANSISTOR
Q8001	2SA1774/RS/-X	TRANSISTOR,2SA1774

MODEL	MARK	MODEL	MARK
GR-DV4000EK	A	GR-DV4000EY	C
GR-DV4000EX	B	GR-DV4000EZ	D

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
D1001	DA221-X	SI DIODE	
D1002	1SS376-X	SI DIODE	
D2901	UMZ6.8EN-W	Z DIODE	
D2903	EMZ6.8N-X	Z DIODE	
D2903	or DF3A6.8FE-X	Z DIODE	
D3001	EC2C01C-X	VARI CAP DIODE	
D3002	EC2C01C-X	VARI CAP DIODE	
D3003	EC2C01C-X	VARI CAP DIODE	
D3004	MA2Z720-X	SB DIODE	
D5001	1SS355-X	SI DIODE	
D5001	or MA111-X	SI DIODE	
D8301	1SS355-X	SI DIODE	
D8301	or MA111-X	SI DIODE	
R1001	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R1002	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R1003	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R1004	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R1005	NRSA6AJ-153W	MG RESISTOR	15kΩ,1/16W
R1006	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R1007	NRSA6AJ-333W	MG RESISTOR	33kΩ,1/16W
R1010	NRSA6AJ-471W	MG RESISTOR	470Ω,1/16W
R1013	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R1015	NRSA6AJ-474W	MG RESISTOR	470kΩ,1/16W
R1017	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R1018	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R1020	NRSA6AJ-331W	MG RESISTOR	330Ω,1/16W
R1021	NRSA6AJ-331W	MG RESISTOR	330Ω,1/16W
R1022	NRSA6AJ-331W	MG RESISTOR	330Ω,1/16W
R1023	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R1024	NRSA6AJ-823W	MG RESISTOR	82kΩ,1/16W
R1025	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
R1026	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R1028	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R1029	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
R1030	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R1032	NRSA6AD-104W	MG RESISTOR	100kΩ,1/16W
R1033	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R1034	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R1035	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
R1036	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R1037	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R1039	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R1040	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R1041	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R1042	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R1044	NRSA6AJ-123W	MG RESISTOR	12kΩ,1/16W
R1045	NRSA6AJ-822W	MG RESISTOR	8.2kΩ,1/16W
R1046	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R1047	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
R1048	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R1049	NRSA6AJ-393W	MG RESISTOR	39kΩ,1/16W
R1050	NRSA6AJ-223W	MG RESISTOR	22kΩ,1/16W
R1051	NRSA6AJ-272W	MG RESISTOR	2.7kΩ,1/16W
R1052	NRSA6AJ-183W	MG RESISTOR	18kΩ,1/16W
R1053	NRSA6AJ-154W	MG RESISTOR	150kΩ,1/16W
R1054	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
R1055	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R1056	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R1057	NRSA6AJ-471W	MG RESISTOR	470Ω,1/16W
R1058	NRSA6AJ-222W	MG RESISTOR	2.2kΩ,1/16W
R1060	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
R1063	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R1064	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
R1065	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R1066	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
R1071	NRSA6AJ-474W	MG RESISTOR	470kΩ,1/16W
R1072	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R1076	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R1077	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R1081	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R1083	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R1084	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R1085	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R1088	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R1089	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R1090	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R1091	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R1092	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R1093	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R1113	NRSA6AD-102W	MG RESISTOR	1kΩ,1/16W
R1114	NRSA6AD-102W	MG RESISTOR	1kΩ,1/16W
R1115	NRSA6AD-102W	MG RESISTOR	1kΩ,1/16W
R1116	NRSA6AD-102W	MG RESISTOR	1kΩ,1/16W
R1401	NRSA6AJ-105W	MG RESISTOR	1MΩ,1/16W
R1402	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R1403	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R1404	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R1405	NRSA6AJ-332W	MG RESISTOR	3.3kΩ,1/16W
R1406	NRSA6AJ-332W	MG RESISTOR	3.3kΩ,1/16W
R1407	NRSA6AJ-332W	MG RESISTOR	3.3kΩ,1/16W
R1408	NRSA6AD-753W	MG RESISTOR	75kΩ,1/16W
R1409	NRSA6AJ-334W	MG RESISTOR	330kΩ,1/16W
R1411	NRSA6AJ-332W	MG RESISTOR	3.3kΩ,1/16W
R1412	NRSA6AJ-332W	MG RESISTOR	3.3kΩ,1/16W
R1413	NRSA6AJ-332W	MG RESISTOR	3.3kΩ,1/16W
R1414	NRSA6AJ-332W	MG RESISTOR	3.3kΩ,1/16W
R1415	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R1416	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R1417	NRSA6AJ-101W	MG RESISTOR	100Ω,1/16W
R1427	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R1428	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R1429	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R1430	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R1431	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R1432	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R2001	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R2002	NRSA6AJ-152W	MG RESISTOR	1.5kΩ,1/16W
R2003	NRSA6AJ-182W	MG RESISTOR	1.8kΩ,1/16W
R2004	NRSA6AJ-272W	MG RESISTOR	2.7kΩ,1/16W
R2005	NRSA6AJ-392W	MG RESISTOR	3.9kΩ,1/16W
R2006	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R2012	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R2013	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R2014	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R2015	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
R2016	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
R2017	NRSA02J-0R0X	MG RESISTOR	0Ω,1/10W
R2101	NRSA6AJ-471W	MG RESISTOR	470Ω,1/16W
R2102	NRSA6AJ-471W	MG RESISTOR	470Ω,1/16W
R2110	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R2111	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R2112	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R2201	NRSA6AJ-224W	MG RESISTOR	220kΩ,1/16W
R2202	NRSA6AJ-564W	MG RESISTOR	560kΩ,1/16W
R2203	NRSA6AJ-393W	MG RESISTOR	39kΩ,1/16W
R2204	NRSA6AJ-154W	MG RESISTOR	150kΩ,1/16W

MODEL	MARK	MODEL	MARK
GR-DV4000EK	A	GR-DV4000EY	C
GR-DV4000EX	B	GR-DV4000EZ	D

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
R2206	NRSA6AJ-333W	MG RESISTOR	33kΩ,1/16W
R2207	NRSA6AJ-333W	MG RESISTOR	33kΩ,1/16W
R2208	NRSA6AJ-223W	MG RESISTOR	22kΩ,1/16W
R2209	NRSA6AJ-223W	MG RESISTOR	22kΩ,1/16W
R2210	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R2211	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R2212	NRSA6AJ-2R7W	MG RESISTOR	2.7Ω,1/16W
R2213	NRSA6AJ-2R7W	MG RESISTOR	2.7Ω,1/16W
R2217	NRSA6AJ-100W	MG RESISTOR	10Ω,1/16W
R2218	NRSA6AJ-100W	MG RESISTOR	10Ω,1/16W
R2219	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R2220	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R2221	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R2222	NRSA6AJ-100W	MG RESISTOR	10Ω,1/16W
R2223	NRSA6AJ-100W	MG RESISTOR	10Ω,1/16W
R2224	NRSA6AJ-100W	MG RESISTOR	10Ω,1/16W
R2225	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R2226	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R2227	NRSA6AJ-822W	MG RESISTOR	8.2kΩ,1/16W
R2228	NRSA6AJ-822W	MG RESISTOR	8.2kΩ,1/16W
R2231	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R2233	NRSA6AJ-333W	MG RESISTOR	33kΩ,1/16W
R2234	NRSA6AJ-333W	MG RESISTOR	33kΩ,1/16W
R2401	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R2402	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R2403	NRSA6AJ-183W	MG RESISTOR	18kΩ,1/16W
R2404	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R2405	NRSA6AJ-123W	MG RESISTOR	12kΩ,1/16W
R2407	NRSA6AJ-100W	MG RESISTOR	10Ω,1/16W
R2601	NRSA6AJ-222W	MG RESISTOR	2.2kΩ,1/16W
R2602	NRSA6AJ-222W	MG RESISTOR	2.2kΩ,1/16W
R2603	NRSA6AJ-682W	MG RESISTOR	6.8kΩ,1/16W
R2604	NRSA6AJ-682W	MG RESISTOR	6.8kΩ,1/16W
R2605	NRSA6AJ-332W	MG RESISTOR	3.3kΩ,1/16W
R2606	NRSA6AJ-332W	MG RESISTOR	3.3kΩ,1/16W
R2607	NRSA6AJ-222W	MG RESISTOR	2.2kΩ,1/16W
R2608	NRSA6AJ-222W	MG RESISTOR	2.2kΩ,1/16W
R2609	NRSA6AJ-223W	MG RESISTOR	22kΩ,1/16W
R2610	NRSA6AJ-223W	MG RESISTOR	22kΩ,1/16W
R2611	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R2612	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R2613	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R2614	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R2701	NRSA6AJ-821W	MG RESISTOR	820Ω,1/16W
R2702	NRSA6AJ-821W	MG RESISTOR	820Ω,1/16W
R2703	NRSA6AJ-564W	MG RESISTOR	560kΩ,1/16W
R2704	NRSA6AJ-564W	MG RESISTOR	560kΩ,1/16W
R2705	NRSA6AJ-332W	MG RESISTOR	3.3kΩ,1/16W
R2706	NRSA6AJ-221W	MG RESISTOR	220Ω,1/16W
R2707	NRSA6AJ-221W	MG RESISTOR	220Ω,1/16W
R2708	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R2709	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R2710	NRSA6AJ-332W	MG RESISTOR	3.3kΩ,1/16W
R2711	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R2901	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R2902	NRSA6AJ-105W	MG RESISTOR	1MΩ,1/16W
R2903	NRSA6AJ-105W	MG RESISTOR	1MΩ,1/16W
R2905	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R2906	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R2907	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R2908	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R2912	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R3002	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R3004	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R3006	NRSA6AJ-100W	MG RESISTOR	10Ω,1/16W
R3007	NRSA6AJ-562W	MG RESISTOR	5.6kΩ,1/16W
R3008	NRSA6AJ-222W	MG RESISTOR	2.2kΩ,1/16W
R3009	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R3010	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R3011	NRSA6AJ-224W	MG RESISTOR	220kΩ,1/16W
R3012	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R3013	NRSA6AJ-242W	MG RESISTOR	2.4kΩ,1/16W
R3014	NRSA6AJ-392W	MG RESISTOR	3.9kΩ,1/16W
R3015	NRSA6AJ-392W	MG RESISTOR	3.9kΩ,1/16W
R3016	NRVA6AD-560W	CMF RESISTOR	56Ω,1/16W
R3017	NRVA6AD-560W	CMF RESISTOR	56Ω,1/16W
R3018	NRVA6AD-560W	CMF RESISTOR	56Ω,1/16W
R3019	NRVA6AD-560W	CMF RESISTOR	56Ω,1/16W
R3020	NRVA6AD-512W	CMF RESISTOR	5.1kΩ,1/16W
R3021	NRSA6AJ-100W	MG RESISTOR	10Ω,1/16W
R3022	NRSA6AJ-100W	MG RESISTOR	10Ω,1/16W
R3027	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R3028	NRSA6AJ-822W	MG RESISTOR	8.2kΩ,1/16W
R3029	NRSA6AJ-105W	MG RESISTOR	1MΩ,1/16W
R3030	NRSA6AJ-224W	MG RESISTOR	220kΩ,1/16W
R3031	NRSA6AJ-224W	MG RESISTOR	220kΩ,1/16W
R3032	NRSA6AJ-105W	MG RESISTOR	1MΩ,1/16W
R3033	NRSA6AJ-222W	MG RESISTOR	2.2kΩ,1/16W
R3034	NRSA6AJ-823W	MG RESISTOR	82kΩ,1/16W
R3035	NRSA6AJ-123W	MG RESISTOR	12kΩ,1/16W
R3036	NRSA6AJ-122W	MG RESISTOR	1.2kΩ,1/16W
R3037	NRSA6AJ-152W	MG RESISTOR	1.5kΩ,1/16W
R3038	NRSA6AJ-561W	MG RESISTOR	560Ω,1/16W
R3039	NRSA6AJ-561W	MG RESISTOR	560Ω,1/16W
R3040	NRSA6AJ-222W	MG RESISTOR	2.2kΩ,1/16W
R3045	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R3046	NRSA6AJ-681W	MG RESISTOR	680Ω,1/16W
R3049	NRSA6AJ-560W	MG RESISTOR	56Ω,1/16W
R3051	NRSA6AJ-101W	MG RESISTOR	100Ω,1/16W
R3058	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R3059	NRSA6AJ-100W	MG RESISTOR	10Ω,1/16W
R3701	NRSA6AJ-271W	MG RESISTOR	270Ω,1/16W
R3702	NRSA6AJ-271W	MG RESISTOR	270Ω,1/16W
R3703	NRSA6AJ-332W	MG RESISTOR	3.3kΩ,1/16W
R3704	NRSA6AJ-301W	MG RESISTOR	300Ω,1/16W
R3705	NRSA6AJ-301W	MG RESISTOR	300Ω,1/16W
R3706	NRSA6AJ-332W	MG RESISTOR	3.3kΩ,1/16W
R3707	NRSA6AJ-680W	MG RESISTOR	68Ω,1/16W
R3708	NRSA6AJ-680W	MG RESISTOR	68Ω,1/16W
R3709	NRSA6AJ-680W	MG RESISTOR	68Ω,1/16W
R3710	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R3711	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R3712	NRSA6AJ-105W	MG RESISTOR	1MΩ,1/16W
R3713	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R3714	NRSA6AJ-823W	MG RESISTOR	82kΩ,1/16W
R3715	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R3721	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R3722	NRSA6AD-151W	MG RESISTOR	150Ω,1/16W
R3724	NRSA6AJ-332W	MG RESISTOR	3.3kΩ,1/16W
R3725	NRSA6AD-151W	MG RESISTOR	150Ω,1/16W
R3726	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R3727	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R3728	NRVA6AD-151W	CMF RESISTOR	150Ω,1/16W
R3730	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R3731	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R3732	NRSA6AJ-101W	MG RESISTOR	100Ω,1/16W

MODEL	MARK	MODEL	MARK
GR-DV4000EK	A	GR-DV4000EY	C
GR-DV4000EX	B	GR-DV4000EZ	D

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
R3733	NRSA6AJ-561W	MG RESISTOR	560Ω,1/16W
R3734	NRSA6AJ-822W	MG RESISTOR	8.2kΩ,1/16W
R3735	NRSA6AJ-182W	MG RESISTOR	1.8kΩ,1/16W
R3736	NRSA6AJ-183W	MG RESISTOR	18kΩ,1/16W
R3737	NRSA6AJ-183W	MG RESISTOR	18kΩ,1/16W
R3738	NRSA6AJ-681W	MG RESISTOR	680Ω,1/16W
R3739	NRSA6AJ-821W	MG RESISTOR	820Ω,1/16W
R3740	NRSA6AJ-821W	MG RESISTOR	820Ω,1/16W
R3741	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R3742	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R3743	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R3744	NRSA6AJ-561W	MG RESISTOR	560Ω,1/16W
R3745	NRSA6AJ-152W	MG RESISTOR	1.5kΩ,1/16W
R3746	NRSA6AJ-222W	MG RESISTOR	2.2kΩ,1/16W
R3747	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R3748	NRSA6AJ-474W	MG RESISTOR	470kΩ,1/16W
R3801	NRSA6AJ-101W	MG RESISTOR	100Ω,1/16W
R3802	NRSA6AD-821W	MG RESISTOR	820Ω,1/16W
R3803	NRSA6AD-273W	MG RESISTOR	27kΩ,1/16W
R3804	NRSA6AD-153W	MG RESISTOR	15kΩ,1/16W
R3805	NRSA6AD-821W	MG RESISTOR	820Ω,1/16W
R3809	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4201	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4202	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4203	NRSA6AJ-333W	MG RESISTOR	33kΩ,1/16W
R4204	NRSA6AJ-101W	MG RESISTOR	100Ω,1/16W
R4205	NRSA6AJ-101W	MG RESISTOR	100Ω,1/16W
R4302	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4303	NRSA6AJ-220W	MG RESISTOR	22Ω,1/16W
R4304	NRSA6AJ-220W	MG RESISTOR	22Ω,1/16W
R4306	NRSA6AJ-220W	MG RESISTOR	22Ω,1/16W
R4307	NRSA6AJ-220W	MG RESISTOR	22Ω,1/16W
R4308	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4310	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4311	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4312	NRSA6AJ-220W	MG RESISTOR	22Ω,1/16W
R4313	NRSA6AJ-220W	MG RESISTOR	22Ω,1/16W
R4314	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R4315	NRSA6AJ-101W	MG RESISTOR	100Ω,1/16W
R4316	NRSA6AJ-101W	MG RESISTOR	100Ω,1/16W
R4317	NRSA6AJ-101W	MG RESISTOR	100Ω,1/16W
R4318	NRSA6AJ-101W	MG RESISTOR	100Ω,1/16W
R4319	NRSA6AJ-101W	MG RESISTOR	100Ω,1/16W
R4320	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4321	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4322	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4323	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4324	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4325	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4326	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4327	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4328	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4804	NRSA6AJ-564W	MG RESISTOR	560kΩ,1/16W
R4805	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R4806	NRSA6AJ-683W	MG RESISTOR	68kΩ,1/16W
R4807	NRSA6AJ-683W	MG RESISTOR	68kΩ,1/16W
R4808	NRSA6AJ-243W	MG RESISTOR	24kΩ,1/16W
R4809	NRSA6AJ-331W	MG RESISTOR	330Ω,1/16W
R4810	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R4811	NRSA6AJ-564W	MG RESISTOR	560kΩ,1/16W
R4812	NRSA6AJ-153W	MG RESISTOR	15kΩ,1/16W
R4814	NRSA6AJ-105W	MG RESISTOR	1MΩ,1/16W
R4815	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
R4816	NRSA6AJ-105W	MG RESISTOR	1MΩ,1/16W
R4817	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R4818	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R4819	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R4820	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R4821	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R4822	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
R4823	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R4824	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R4825	NRSA6AJ-222W	MG RESISTOR	2.2kΩ,1/16W
R4826	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
R4828	NRSA6AJ-183W	MG RESISTOR	18kΩ,1/16W
R4829	NRSA6AJ-302W	MG RESISTOR	3kΩ,1/16W
R4830	NRSA6AJ-222W	MG RESISTOR	2.2kΩ,1/16W
R4831	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
R4832	NRSA6AJ-333W	MG RESISTOR	33kΩ,1/16W
R4833	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R4834	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R4836	NRSA6AJ-561W	MG RESISTOR	560Ω,1/16W
R4841	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R4842	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R4854	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4856	NRSA63J-6R8X	MG RESISTOR	6.8Ω,1/16W
R4857	NRSA63J-6R8X	MG RESISTOR	6.8Ω,1/16W
R4858	NRSA6AJ-333W	MG RESISTOR	33kΩ,1/16W
R4859	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4860	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4862	NRSA63J-6R8X	MG RESISTOR	6.8Ω,1/16W
R4863	NRSA63J-6R8X	MG RESISTOR	6.8Ω,1/16W
R4864	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R4865	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R4866	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R4867	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R4868	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4870	NRSA6AJ-271W	MG RESISTOR	270Ω,1/16W
R4871	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4874	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R5001	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R5002	NRSA6AJ-100W	MG RESISTOR	10Ω,1/16W
R5003	NRSA6AJ-100W	MG RESISTOR	10Ω,1/16W
R5004	NRSA6AJ-100W	MG RESISTOR	10Ω,1/16W
R5005	NRSA6AJ-100W	MG RESISTOR	10Ω,1/16W
R5006	NRSA6AJ-100W	MG RESISTOR	10Ω,1/16W
R5009	NRSA6AJ-100W	MG RESISTOR	10Ω,1/16W
R5010	NRSA6AJ-100W	MG RESISTOR	10Ω,1/16W
R5017	NRSA6AJ-101W	MG RESISTOR	100Ω,1/16W
R5020	NRSA6AJ-100W	MG RESISTOR	10Ω,1/16W
R5022	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R6601	NRSA6AJ-822W	MG RESISTOR	8.2kΩ,1/16W
R6603	NRVA6AD-683W	CMF RESISTOR	68kΩ,1/16W
R6604	NRVA6AD-104W	CMF RESISTOR	100kΩ,1/16W
R6605	NRSA6AJ-184W	MG RESISTOR	180kΩ,1/16W
R6606	NRSA6AJ-823W	MG RESISTOR	82kΩ,1/16W
R6611	NRSA6AJ-335W	MG RESISTOR	3.3MΩ,1/16W
R6612	NRSA6AJ-474W	MG RESISTOR	470kΩ,1/16W
R6613	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
R6614	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
R6615	NRSA6AJ-684W	MG RESISTOR	680kΩ,1/16W
R6618	NRSA6AJ-154W	MG RESISTOR	150kΩ,1/16W
R6619	NRSA6AJ-333W	MG RESISTOR	33kΩ,1/16W
R6620	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R6621	NRSA6AJ-563W	MG RESISTOR	56kΩ,1/16W
R6623	NRSA6AJ-105W	MG RESISTOR	1MΩ,1/16W

MODEL	MARK	MODEL	MARK
GR-DV4000EK	A	GR-DV4000EY	C
GR-DV4000EX	B	GR-DV4000EZ	D

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
R8001	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R8002	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R8003	NRSA6AJ-220W	MG RESISTOR	22Ω,1/16W
R8004	NRSA6AJ-220W	MG RESISTOR	22Ω,1/16W
R8005	NRSA6AJ-220W	MG RESISTOR	22Ω,1/16W
R8007	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R8008	NRSA6AJ-561W	MG RESISTOR	560Ω,1/16W
R8009	NRSA6AJ-105W	MG RESISTOR	1MΩ,1/16W
R8010	NRSA6AJ-220W	MG RESISTOR	22Ω,1/16W
R8011	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R8012	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R8014	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R8016	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R8017	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R8018	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R8022	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R8023	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R8025	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R8027	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R8028	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R8029	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R8030	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R8031	NRSA6AJ-100W	MG RESISTOR	10Ω,1/16W
R8032	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R8033	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R8036	NRSA6AJ-220W	MG RESISTOR	22Ω,1/16W
R8039	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R8302	NRS181J-220X	MG RESISTOR	22Ω,1/8W
R8303	NRS181J-220X	MG RESISTOR	22Ω,1/8W
R8305	NRSA6AJ-105W	MG RESISTOR	1MΩ,1/16W
R8306	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R8307	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R8308	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R8309	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R8310	NRSA6AJ-153W	MG RESISTOR	15kΩ,1/16W
R8313	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R8314	NRSA6AJ-105W	MG RESISTOR	1MΩ,1/16W
R8315	NRSA6AJ-105W	MG RESISTOR	1MΩ,1/16W
R8501	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R8502	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R8503	NRSA6AJ-220W	MG RESISTOR	22Ω,1/16W
R8504	NRSA6AJ-220W	MG RESISTOR	22Ω,1/16W
RA1008	NRZ0034-103W	NET RESISTOR	10kΩ,1/32W
RA1009	NRZ0034-104W	NET RESISTOR	100kW
RA1010	NRZ0034-104W	NET RESISTOR	100kW
RA1401	NRZ0034-473W	NET RESISTOR,CAM	
RA3001	NRZ0034-101W	NET RESISTOR	
RA3002	NRZ0034-101W	NET RESISTOR	
RA3003	NRZ0040-0R0X	NET RESISTOR,3216	
RA3004	NRZ0034-103W	NET RESISTOR	10kΩ,1/32W
RA4201	NRZ0034-101W	NET RESISTOR,(1005X4)	
RA4202	NRZ0034-101W	NET RESISTOR,(1005X4)	
RA4301	NRZ0034-101W	NET RESISTOR,(1005X4)	
RA4302	NRZ0034-101W	NET RESISTOR,(1005X4)	
RA4303	NRZ0034-101W	NET RESISTOR,(1005X4)	
RA4304	NRZ0034-101W	NET RESISTOR,(1005X4)	
RA4305	NRZ0034-100W	NET RESISTOR,(1005X4)	10Ω
RA4306	NRZ0034-100W	NET RESISTOR,(1005X4)	10Ω
RA4307	NRZ0034-100W	NET RESISTOR,(1005X4)	10Ω
RA4308	NRZ0034-100W	NET RESISTOR,(1005X4)	10Ω
RA8001	NRZ0034-101W	NET RESISTOR,(1005X4)	
RA8002	NRZ0034-101W	NET RESISTOR,(1005X4)	
RA8003	NRZ0034-101W	NET RESISTOR,(1005X4)	

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
RA8004	NRZ0034-101W	NET RESISTOR,(1005X4)	
C1004	NCFA1AZ-104W	C CAPACITOR	0.1µF,10V
C1005	NBE90JM-106X	TA E CAPACITOR	10µF,6.3V
C1006	NDCA1HJ-9R0W	C CAPACITOR	9pF,50V
C1007	NCFA1HZ-103W	C CAPACITOR	0.01µF,50V
C1009	NCFA1HZ-103W	C CAPACITOR	0.01µF,50V
C1010	NCFA1HZ-103W	C CAPACITOR	0.01µF,50V
C1011	NCFA1HZ-103W	C CAPACITOR	0.01µF,50V
C1012	NCFA1HZ-103W	C CAPACITOR	0.01µF,50V
C1013	NCFA1HZ-103W	C CAPACITOR	0.01µF,50V
C1014	NCFA1HZ-103W	C CAPACITOR	0.01µF,50V
C1015	NCFA1HZ-103W	C CAPACITOR	0.01µF,50V
C1016	NCFA1HZ-103W	C CAPACITOR	0.01µF,50V
C1017	NCFA1HZ-103W	C CAPACITOR	0.01µF,50V
C1018	NCFA1HZ-103W	C CAPACITOR	0.01µF,50V
C1019	NCFA1HZ-103W	C CAPACITOR	0.01µF,50V
C1023	NCFA1AZ-104W	C CAPACITOR	0.1µF,10V
C1026	NCFA1AZ-104W	C CAPACITOR	0.1µF,10V
C1027	NCFA1HZ-103W	C CAPACITOR	0.01µF,50V
C1028	NCFA1HZ-103W	C CAPACITOR	0.01µF,50V
C1029	NCFA1HZ-103W	C CAPACITOR	0.01µF,50V
C1030	NCFA1HZ-103W	C CAPACITOR	0.01µF,50V
C1031	NCF31AZ-105X	C CAPACITOR	1µF,10V
C1034	NCFA1HZ-103W	C CAPACITOR	0.01µF,50V
C1036	NCFA1HZ-103W	C CAPACITOR	0.01µF,50V
C1037	NCFA1HZ-103W	C CAPACITOR	0.01µF,50V
C1038	NCFA1HZ-103W	C CAPACITOR	0.01µF,50V
C1041	NCFA1HZ-103W	C CAPACITOR	0.01µF,50V
C1401	NDCA1HJ-100W	C CAPACITOR	10pF,50V
C1402	NDCA1HJ-220W	C CAPACITOR	22pF,50V
C1403	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C1404	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C1405	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C1406	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C1407	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C1409	NCBA1EK-682W	C CAPACITOR	0.0068µF,25V
C1410	NCBA1EK-682W	C CAPACITOR	0.0068µF,25V
C1411	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
C1412	NCBA1CK-223W	C CAPACITOR	0.022µF,16V
C1413	NCBA1CK-223W	C CAPACITOR	0.022µF,16V
C1414	NCBA1CK-223W	C CAPACITOR	0.022µF,16V
C1415	NCBA1CK-223W	C CAPACITOR	0.022µF,16V
C1416	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C2040	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
C2101	NCB30JK-105X	C CAPACITOR	1µF,6.3V
C2102	NCB30JK-105X	C CAPACITOR	1µF,6.3V
C2105	NCBA1HK-222W	C CAPACITOR	0.0022µF,50V
C2106	NCBA1HK-222W	C CAPACITOR	0.0022µF,50V
C2107	NBE20JM-106X	TA E CAPACITOR	10µF,6.3V
C2108	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C2109	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C2110	NBE20JM-475X	TA E CAPACITOR	4.7µF,6.3V
C2201	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C2202	NCB30JK-105X	C CAPACITOR	1µF,6.3V
C2203	NCB30JK-105X	C CAPACITOR	1µF,6.3V
C2204	NCB30JK-105X	C CAPACITOR	1µF,6.3V
C2205	NCB30JK-105X	C CAPACITOR	1µF,6.3V
C2206	NBE20GM-476X	TA E CAPACITOR	47µF,4V
C2207	NBE20GM-476X	TA E CAPACITOR	47µF,4V
C2209	NCB30JK-105X	C CAPACITOR	1µF,6.3V
C2210	NCB30JK-105X	C CAPACITOR	1µF,6.3V
C2211	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C2212	NCBA1AK-104W	C CAPACITOR	0.1µF,10V

MODEL	MARK	MODEL	MARK
GR-DV4000EK	A	GR-DV4000EY	C
GR-DV4000EX	B	GR-DV4000EZ	D

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
C2213	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C2214	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C2215	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C2216	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C2217	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C2218	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C2223	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C2224	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C2401	NBE20JM-106X	TA E CAPACITOR	10µF,6.3V
C2402	NBE20JM-106X	TA E CAPACITOR	10µF,6.3V
C2403	NBE20JM-106X	TA E CAPACITOR	10µF,6.3V
C2404	NBE20JM-106X	TA E CAPACITOR	10µF,6.3V
C2405	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C2406	NBE20JM-106X	TA E CAPACITOR	10µF,6.3V
C2603	NCBA1CK-223W	C CAPACITOR	0.022µF,16V
C2604	NCBA1CK-223W	C CAPACITOR	0.022µF,16V
C2605	NCBA1EK-472W	C CAPACITOR	0.0047µF,25V
C2606	NCBA1EK-472W	C CAPACITOR	0.0047µF,25V
C2607	NCBA1AK-473W	C CAPACITOR	0.047µF,10V
C2608	NCBA1AK-473W	C CAPACITOR	0.047µF,10V
C2609	NCBA1HK-102W	C CAPACITOR	0.001µF,50V
C2610	NCBA1HK-102W	C CAPACITOR	0.001µF,50V
C2611	NCB30JK-105X	C CAPACITOR	1µF,6.3V
C2612	NCB30JK-105X	C CAPACITOR	1µF,6.3V
C2613	NCB30JK-105X	C CAPACITOR	1µF,6.3V
C2614	NDCA1HJ-101W	C CAPACITOR	100pF,50V
C2615	NDCA1HJ-101W	C CAPACITOR	100pF,50V
C2616	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C2901	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
C2903	NCB30JK-105X	C CAPACITOR	1µF,6.3V
C2904	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
C3001	NBE20JM-106X	TA E CAPACITOR	10µF,6.3V
C3003	NCB30JK-105X	C CAPACITOR	1µF,6.3V
C3005	NBE20JM-106X	TA E CAPACITOR	10µF,6.3V
C3007	NCB10JK-106X	C CAPACITOR	10µF,6.3V
C3008	NBE20JM-106X	TA E CAPACITOR	10µF,6.3V
C3010	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
C3011	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C3012	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C3013	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
C3015	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
C3016	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C3017	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C3020	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C3021	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C3022	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C3023	NDCA1HJ-330W	C CAPACITOR	33pF,50V
C3024	NCBA1HK-102W	C CAPACITOR	0.001µF,50V
C3025	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C3026	NCB30JK-105X	C CAPACITOR	1µF,6.3V
C3027	NCBA1EK-472W	C CAPACITOR	0.0047µF,25V
C3028	NDCA1EJ-271W	C CAPACITOR	270pF,25V
C3029	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
C3030	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C3031	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C3032	NCBA1HK-102W	C CAPACITOR	0.001µF,50V
C3033	NDCA1HJ-220W	C CAPACITOR	22pF,50V
C3036	NDCA1HJ-6R0W	C CAPACITOR	6pF,50V
C3037	NDCA1HJ-6R0W	C CAPACITOR	6pF,50V
C3038	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C3039	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C3042	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
C3043	NCBA1CK-103W	C CAPACITOR	0.01µF,16V

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
C3044	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C3045	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C3046	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
C3047	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C3048	NCB31CK-473X	C CAPACITOR	0.047µF,16V
C3049	NCBA1HK-222W	C CAPACITOR	0.0022µF,50V
C3050	NCBA1HK-102W	C CAPACITOR	0.001µF,50V
C3055	NCB30JK-105X	C CAPACITOR	1µF,6.3V
C3056	NCB30JK-105X	C CAPACITOR	1µF,6.3V
C3058	NCBA1AK-473W	C CAPACITOR	0.047µF,10V
C3059	NCBA1HK-102W	C CAPACITOR	0.001µF,50V
C3061	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
C3062	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
C3701	NBE20JM-106X	TA E CAPACITOR	10µF,6.3V
C3702	NDCA1HJ-560W	C CAPACITOR	56pF,50V
C3703	NDCA1HJ-270W	C CAPACITOR	27pF,50V
C3704	NDCA1HJ-680W	C CAPACITOR	68pF,50V
C3705	NDCA1HJ-270W	C CAPACITOR	27pF,50V
C3706	NCB30JK-105X	C CAPACITOR	1µF,6.3V
C3707	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
C3708	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C3709	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
C3710	NBE20GM-226X	TA E CAPACITOR	22µF,4V
C3711	NBE20GM-226X	TA E CAPACITOR	22µF,4V
C3712	NBE40GM-107X	TA E CAPACITOR	100µF,4V
C3713	NBE40GM-107X	TA E CAPACITOR	100µF,4V
C3715	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
C3731	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
C3732	NCBA1HK-102W	C CAPACITOR	0.001µF,50V
C3733	NDCA1HJ-3R0W	C CAPACITOR	3pF,50V
C3734	NDCA1HJ-5R0W	C CAPACITOR	5pF,50V
C3735	NDCA1HJ-330W	C CAPACITOR	33pF,50V
C3736	NCBA1HK-102W	C CAPACITOR	0.001µF,50V
C3738	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
C3739	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
C3740	NCB30JK-105X	C CAPACITOR	1µF,6.3V
C3741	NCB30JK-105X	C CAPACITOR	1µF,6.3V
C3742	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C3743	NDCA1HJ-3R0W	C CAPACITOR	3pF,50V
C3744	NDCA1HJ-5R0W	C CAPACITOR	5pF,50V
C3745	NDCA1HJ-330W	C CAPACITOR	33pF,50V
C3746	NCB20JM-475X	C CAPACITOR	4.7µF,6.3V
C3747	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
C3801	NCB30JK-105X	C CAPACITOR	1µF,6.3V
C3802	NCB30JK-105X	C CAPACITOR	1µF,6.3V
C3803	NBE20JM-106X	TA E CAPACITOR	10µF,6.3V
C3804	NBE20GM-476X	TA E CAPACITOR	47µF,4V
C3805	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
C3806	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
C3807	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
C3808	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
C3809	NCB31CK-104X	C CAPACITOR	0.1µF,16V
C3810	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
C3811	NCB31CK-104X	C CAPACITOR	0.1µF,16V
C3812	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C3813	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C3814	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
C3815	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C3816	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C3817	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C3818	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C3819	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
C3820	NCBA1CK-103W	C CAPACITOR	0.01µF,16V

MODEL	MARK	MODEL	MARK
GR-DV4000EK	A	GR-DV4000EY	C
GR-DV4000EX	B	GR-DV4000EZ	D

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
C3901	NBE90GM-226X	TA E CAPACITOR	22µF,4V
C3902	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
C4201	NCB30JK-105X	C CAPACITOR	1µF,6.3V
C4202	NBZ0015-106X	TA E CAPACITOR	10µF,6.3V
C4203	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
C4204	NBE20GM-107X	TA E CAPACITOR	100µF,4V
C4205	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C4206	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C4207	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C4208	NCBA1CK-123W	C CAPACITOR	0.012µF,16V
C4209	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C4210	NCB30JK-105X	C CAPACITOR	1µF,6.3V
C4211	NCB21CK-105X	C CAPACITOR	1µF,16V
C4213	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C4214	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C4215	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C4216	NCB30JK-105X	C CAPACITOR	1µF,6.3V
C4219	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C4220	NCB30JK-105X	C CAPACITOR	1µF,6.3V
C4221	NCB30JK-105X	C CAPACITOR	1µF,6.3V
C4222	NCB30JK-105X	C CAPACITOR	1µF,6.3V
C4301	NBZ0015-106X	TA E CAPACITOR	10µF,6.3V
C4302	NBZ0015-106X	TA E CAPACITOR	10µF,6.3V
C4303	NBZ0015-106X	TA E CAPACITOR	10µF,6.3V
C4304	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
C4305	NCB30JK-105X	C CAPACITOR	1µF,6.3V
C4306	NBZ0015-106X	TA E CAPACITOR	10µF,6.3V
C4307	NBZ0015-106X	TA E CAPACITOR	10µF,6.3V
C4308	NBZ0015-106X	TA E CAPACITOR	10µF,6.3V
C4309	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C4310	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C4311	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C4312	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C4803	NBE20JM-106X	TA E CAPACITOR	10µF,6.3V
C4804	NCFA1AZ-104W	C CAPACITOR	0.1µF,10V
C4806	NCFA1AZ-104W	C CAPACITOR	0.1µF,10V
C4808	NCB30JK-105X	C CAPACITOR	1µF,6.3V
C4809	NCFA1AZ-104W	C CAPACITOR	0.1µF,10V
C4810	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
C4811	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
C4812	NCFA1AZ-104W	C CAPACITOR	0.1µF,10V
C4813	NCFA1AZ-104W	C CAPACITOR	0.1µF,10V
C4814	NCFA1AZ-104W	C CAPACITOR	0.1µF,10V
C4815	NCB31HK-152X	C CAPACITOR	0.0015µF,50V
C4816	NCFA1AZ-104W	C CAPACITOR	0.1µF,10V
C4819	NCF31EZ-104X	C CAPACITOR	0.1µF,25V
C4851	NBE20JM-106X	TA E CAPACITOR	10µF,6.3V
C4852	NCFA1AZ-104W	C CAPACITOR	0.1µF,10V
C4853	NBE21AM-335X	TA E CAPACITOR	3.3µF,10V
C4854	NBE21AM-106X	TA E CAPACITOR	10µF,10V
C4855	NCB31CK-104X	C CAPACITOR	0.1µF,16V
C4858	NDCA1HJ-680W	C CAPACITOR	68pF,50V
C4859	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
C4860	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
C4861	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
C4862	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
C4864	NBE20JM-106X	TA E CAPACITOR	10µF,6.3V
C4865	NCFA1AZ-104W	C CAPACITOR	0.1µF,10V
C5001	NCB30JK-105X	C CAPACITOR	1µF,6.3V
C5002	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
C5003	NBE20JM-226X	TA E CAPACITOR	22µF,6.3V
C5004	NCB30JK-105X	C CAPACITOR	1µF,6.3V
C5005	NCBA1AK-104W	C CAPACITOR	0.1µF,10V

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
C5006	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C5008	NBE20GM-476X	TA E CAPACITOR	47µF,4V
C5009	NBZ0015-106X	TA E CAPACITOR	10µF,6.3V
C5010	NBZ0003-475X	TA E CAPACITOR	4.7µF,20V
C5011	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C5012	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C5013	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C5014	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C5017	NBE41AM-476X	TA E CAPACITOR	47µF,10V
C5019	NCF31EZ-104X	C CAPACITOR	0.1µF,25V
C5021	NBZ0003-475X	TA E CAPACITOR	4.7µF,20V
C5022	NCF31EZ-104X	C CAPACITOR	0.1µF,25V
C5023	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C5025	NBP21VM-105X	TA E CAPACITOR	1µF,35V
C5027	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C5028	NBZ0015-106X	TA E CAPACITOR	10µF,6.3V
C5029	NCB30JK-105X	C CAPACITOR	1µF,6.3V
C6601	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
C6602	NCB21CK-105X	C CAPACITOR	1µF,16V
C6603	NCBA1HK-102W	C CAPACITOR	0.001µF,50V
C6604	NCBA1AK-473W	C CAPACITOR	0.047µF,10V
C6611	NCBA1HK-102W	C CAPACITOR	0.001µF,50V
C6612	NDCA1EJ-221W	C CAPACITOR	220pF,25V
C6613	NDCA1EJ-121W	C CAPACITOR	120pF,25V
C6614	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
C8001	NBE20JM-106X	TA E CAPACITOR	10µF,6.3V
C8002	NBE20JM-106X	TA E CAPACITOR	10µF,6.3V
C8003	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C8004	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C8005	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C8006	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C8007	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C8008	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C8009	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C8010	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C8011	NBE20JM-106X	TA E CAPACITOR	10µF,6.3V
C8012	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C8013	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C8014	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C8015	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C8016	NCB30JK-105X	C CAPACITOR	1µF,6.3V
C8017	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
C8018	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C8021	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
C8022	NBE20JM-106X	TA E CAPACITOR	10µF,6.3V
C8023	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C8024	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C8025	NBE20JM-106X	TA E CAPACITOR	10µF,6.3V
C8026	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C8027	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C8301	NBE20JM-106X	TA E CAPACITOR	10µF,6.3V
C8305	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C8306	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C8307	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C8310	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C8311	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C8501	NBE20JM-106X	TA E CAPACITOR	10µF,6.3V
C8502	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C8503	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C8504	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
L1002	NQL402M-100X	INDUCTOR	10µH
L1401	NQR0006-001X	FERRITE BEADS	
L2101	NQL402M-100X	INDUCTOR	10µH

MODEL	MARK	MODEL	MARK
GR-DV4000EK	A	GR-DV4000EY	C
GR-DV4000EX	B	GR-DV4000EZ	D

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
L2401	NQL402M-100X	INDUCTOR	10µH
L2601	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
L2602	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
L2603	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
L2901	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
L2902	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
L2903	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
L2904	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
L2905	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
L2906	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
L2907	NQR0251-004X	FERRITE BEADS	
L2908	NQR0251-004X	FERRITE BEADS	
L2909	NQR0251-004X	FERRITE BEADS	
L2910	NQR0251-004X	FERRITE BEADS	
L3001	NQR0129-002X	FERRITE BEADS	
L3002	NQR0129-002X	FERRITE BEADS	
L3004	NQR0006-001X	FERRITE BEADS	
L3005	NQR0006-001X	FERRITE BEADS	
L3006	NQR0006-001X	FERRITE BEADS	
L3007	NQL085J-2R2X	INDUCTOR	2.2µH
L3008	NQL085J-120X	INDUCTOR	12µH
L3012	NQR0006-001X	FERRITE BEADS	
L3701	NQL38DK-100X	P COIL	10µH
L3731	NQL085J-6R8X	INDUCTOR	6.8µH
L3732	NQL085J-6R8X	INDUCTOR	6.8µH
L3801	NQR0129-002X	FERRITE BEADS	
L3802	NQR0129-002X	FERRITE BEADS	
L3803	NQR0006-001X	FERRITE BEADS	
L3804	NQL38DK-100X	P COIL	10µH
L3901	NQL38DK-100X	P COIL	10µH
L4201	NQL38DK-100X	P COIL	10µH
L4301	NQR0129-002X	FERRITE BEADS	
L4302	NQR0129-002X	FERRITE BEADS	
L4303	NQR0129-002X	FERRITE BEADS	
L4304	NQR0129-002X	FERRITE BEADS	
L4305	NQR0129-002X	FERRITE BEADS	
L4802	NQL38DK-100X	P COIL	10µH
L4851	NQR0129-002X	FERRITE BEADS	
L4852	NQL315K-100X	INDUCTOR	10µH
L4853	NQL315K-100X	INDUCTOR	10µH
L5001	NQR0129-002X	FERRITE BEADS	
L5002	NQL38DK-100X	P COIL	10µH
L5003	NQL38DK-100X	P COIL	10µH
L5004	NQL38DK-100X	P COIL	10µH
L5005	NQR0129-002X	FERRITE BEADS	
L5006	NQL38DK-100X	P COIL	10µH
L5007	NQR0129-002X	FERRITE BEADS	
L6601	NQR0006-001X	FERRITE BEADS	
L6602	NQR0129-002X	FERRITE BEADS	
L8001	NQR0129-002X	FERRITE BEADS	
L8002	NQR0129-002X	FERRITE BEADS	
L8003	NQR0129-002X	FERRITE BEADS	
L8004	NQR0006-001X	FERRITE BEADS	
L8005	NQR0129-002X	FERRITE BEADS	
L8006	NQR0006-001X	FERRITE BEADS	
L8301	NQR0129-002X	FERRITE BEADS	
L8501	NQR0129-002X	FERRITE BEADS	
J101	NNZ0041-001X	D CONNECTOR	IEEE1394(4pin)
J102	QNZ0616-001	USB CONNECTOR,USB	
TH6601	NRSA63J-0R0X	MG RESISTOR,1608	0Ω,1/16W
X1001	NAX0474-001X	C OSCILLATOR,NAX0424	16MHz
X1002	NAX0564-001X	CRYSTAL	
X1401	NAX0204-001X	CRYSTAL	16MHz
X3002	NAX0591-001X	CRYSTAL	24.576MHz
X4301	NAX0587-001X	CXO,54MHZ 5*3	
X8301	NAX0612-001X	C RESONATOR	6MHz
WR1	QUQ105-1202AA	FFC WIRE,MAIN-JACK	
WR2	QAL0474-001	FPC,X2,MAIN-P/M	
CN101	QGA1002F1-02X	W TO B CONNE,CCD SHIELD	W TO B(1-2)
CN102	QGF0508F1-20X	FPC CONNE,CCD	FPC(1-20)
CN103	QGF0517F2-16X	FPC CONNE,SHOE	FPC(1-16)
CN104	QGF0517F2-24X	FPC CONNE,OP DRIV	FPC(1-24)
CN106	QGF0301F1-57X	FPC CONNE,MONI	FPC(1-57)
CN107	QGF0528F1-40X	FFC/FPC CONNE,PR/MDA1	FFC/FPC(1-40)
CN108	QGF0528F1-40X	FFC/FPC CONNE,PR/MDA2	FFC/FPC(1-40)
CN105	QGB0509M1-30X	B TO B CONNE,JIG	
CN109	QGF0513F1-16X	FPC CONNE,STRB	FPC(1-16)
CN110	QGB0404M2-80X	B TO B CONNE,REG	
CN111	QGF0508F1-30X	FPC CONNE,FRONT	FPC(1-30)
CN112	QGF0517F2-12X	FPC CONNE,JACK	FPC(1-12)
CN114	QGF0507F4-16X	FFC/FPC CONNE,ZOOM OPE	FFC/FPC(1-16)

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JACK BOARD ASSEMBLY<02>

PW3	YB20944A3	JACK PWB ASS'Y,JACK	
D201	MA8068-X	Z DIODE,S	
D202	EMZ6.8N-X	Z DIODE,EDIT	
D203	MA8068-X	Z DIODE,EDIT	
R201	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
R202	NQR0251-004X	FERRITE BEADS	
R203	NQR0251-004X	FERRITE BEADS	
R204	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
R205	NRSA63J-221X	MG RESISTOR	220Ω,1/16W
R206	NRSA63J-331X	MG RESISTOR	330Ω,1/16W
R207	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
R209	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
R210	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
J201	QND0004-001	S JACK,S	
J202	PEMC1203	MINI JACK,EDIT	
S201	NSW0122-001X	DETECT SWITCH,EJECT	
CN201	QGF0507F4-12X	FFC/FPC CONNE	FFC/FPC(1-12)

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REG BOARD ASSEMBLY<03>

	PW1	YB20945A-03	REG PWB ASS'Y
	IC6001	S-80842CNNB-W	IC
	IC6001	or IC-PST3442U-W	IC
	IC6002	S-817A33ANB-W	IC
	IC6003	MM1613BN-X	IC
	IC6101	FA3698F	IC
	IC6201	BD3987FV-X	IC
	Q6001	DTC144EE-X	DIGI TRANSISTOR
	Q6001	or RN1104-X	DIGI TRANSISTOR
	Q6001	or PDTC144EE-X	DIGI TRANSISTOR
	Q6001	or UN9213J-X	DIGI TRANSISTOR
	Q6002	MCH6613-W	MOS FET
⚠	Q6201	QS6U24-W	MOS FET
	Q6202	2SA1577/RS/-X	TRANSISTOR
⚠	Q6203	QS6U24-W	MOS FET
	Q6204	QS6U24-W	MOS FET
	Q6205	CPH3101-X	TRANSISTOR
	Q6206	DTC124TE-X	DIGI TRANSISTOR

MODEL	MARK	MODEL	MARK
GR-DV4000EK	A	GR-DV4000EY	C
GR-DV4000EX	B	GR-DV4000EZ	D

#	⚠	REF No.	PART No.	PART NAME, DESCRIPTION	
		Q6206	or UN9210J-X	DIGI TRANSISTOR	
	⚠	Q6207	QS6U24-W	MOS FET	
	⚠	Q6208	QS6U24-W	MOS FET	
		Q6209	CPH3314-X	MOS FET	
		D301	UDZS6.8B-X	Z DIODE	
	⚠	D6001	RB706D-40-X	SB DIODE	
	⚠	D6002	RB715F-X	SB DIODE	
		D6201	RB480Y-W	SB DIODE	
		D6203	RB480Y-W	SB DIODE	
		R302	NRSA6AJ-101W	MG RESISTOR	100Ω,1/16W
		R303	NRSA6AJ-101W	MG RESISTOR	100Ω,1/16W
		R6001	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
		R6002	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
		R6003	NRSA6AJ-224W	MG RESISTOR	220kΩ,1/16W
		R6004	NRSA6AJ-183W	MG RESISTOR	18kΩ,1/16W
		R6005	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
	⚠	R6006	NRSA63J-471X	MG RESISTOR	470Ω,1/16W
	⚠	R6007	NRSA63J-102X	MG RESISTOR	1kΩ,1/16W
		R6014	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
		R6020	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
		R6101	NRSA6AD-103W	MG RESISTOR	10kΩ,1/16W
		R6102	NRSA6AD-751W	MG RESISTOR	750Ω,1/16W
		R6103	NRSA6AD-103W	MG RESISTOR	10kΩ,1/16W
		R6104	NRSA6AJ-333W	MG RESISTOR	33kΩ,1/16W
		R6105	NRSA6AD-562W	MG RESISTOR	5.6kΩ,1/16W
		R6106	NRSA6AJ-223W	MG RESISTOR	22kΩ,1/16W
		R6107	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
		R6108	NRSA6AJ-823W	MG RESISTOR	82kΩ,1/16W
		R6109	NRSA6AJ-823W	MG RESISTOR	82kΩ,1/16W
		R6110	NRSA6AD-153W	MG RESISTOR	15kΩ,1/16W
		R6111	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
		R6112	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
		R6113	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
		R6201	NRSA6AJ-330W	MG RESISTOR	33Ω,1/16W
		R6202	NRSA6AD-223W	MG RESISTOR	22kΩ,1/16W
		R6203	NRSA6AJ-474W	MG RESISTOR	470kΩ,1/16W
		R6204	NRSA6AD-103W	MG RESISTOR	10kΩ,1/16W
		R6205	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
		R6206	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
		R6207	NRSA6AD-183W	MG RESISTOR	18kΩ,1/16W
		R6208	NRSA6AD-123W	MG RESISTOR	12kΩ,1/16W
		R6209	NRSA6AJ-330W	MG RESISTOR	33Ω,1/16W
		R6210	NRSA6AD-123W	MG RESISTOR	12kΩ,1/16W
		R6211	NRSA6AD-153W	MG RESISTOR	15kΩ,1/16W
		R6212	NRSA6AJ-330W	MG RESISTOR	33Ω,1/16W
		R6213	NRSA6AD-183W	MG RESISTOR	18kΩ,1/16W
		R6215	NRSA6AD-472W	MG RESISTOR	4.7kΩ,1/16W
		R6216	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
		R6217	NRSA6AJ-152W	MG RESISTOR	1.5kΩ,1/16W
		R6218	NRSA6AJ-330W	MG RESISTOR	33Ω,1/16W
		R6219	NRSA6AD-243W	MG RESISTOR	24kΩ,1/16W
		R6220	NRSA6AD-302W	MG RESISTOR	3kΩ,1/16W
		R6221	NRSA6AD-104W	MG RESISTOR	100kΩ,1/16W
		R6222	NRSA6AD-123W	MG RESISTOR	12kΩ,1/16W
		R6223	NRSA6AD-103W	MG RESISTOR	10kΩ,1/16W
		R6224	NRSA6AJ-330W	MG RESISTOR	33Ω,1/16W
		R6225	NRSA6AD-473W	MG RESISTOR	47kΩ,1/16W
		R6226	NRSA6AD-562W	MG RESISTOR	5.6kΩ,1/16W
		R6227	NRSA6AD-273W	MG RESISTOR	27kΩ,1/16W
		R6228	NRSA6AD-473W	MG RESISTOR	47kΩ,1/16W
		R6229	NRSA6AJ-330W	MG RESISTOR	33Ω,1/16W
		R6230	NRSA6AJ-272W	MG RESISTOR	2.7kΩ,1/16W
		R6231	NRSA6AD-473W	MG RESISTOR	47kΩ,1/16W

#	⚠	REF No.	PART No.	PART NAME, DESCRIPTION	
		R6232	NRSA6AD-332W	MG RESISTOR	3.3kΩ,1/16W
		R6234	NRSA6AD-822W	MG RESISTOR	8.2kΩ,1/16W
		R6235	NRSA6AD-623W	MG RESISTOR	62kΩ,1/16W
		R6240	NRSA6AD-753W	MG RESISTOR	75kΩ,1/16W
		R6241	NRSA6AD-153W	MG RESISTOR	15kΩ,1/16W
		R6704	NRSA6AD-823W	MG RESISTOR	82kΩ,1/16W
		R6705	NRSA6AD-333W	MG RESISTOR	33kΩ,1/16W
		C301	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
		C302	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
		C6001	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
		C6002	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
		C6003	NBE80JM-106X	TA E CAPACITOR	10µF,6.3V
		C6004	NCB21CK-105X	C CAPACITOR	1µF,16V
		C6005	NBE20JM-226X	TA E CAPACITOR	22µF,6.3V
		C6008	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
		C6101	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
		C6103	NCB11CK-105X	C CAPACITOR	1µF,16V
		C6104	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
		C6105	NCB21CK-105X	C CAPACITOR	1µF,16V
		C6106	NBP41DM-106X	TA E CAPACITOR	10µF,20V
		C6107	NCB21CK-105X	C CAPACITOR	1µF,16V
		C6109	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
		C6110	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
		C6111	NCB30JK-105X	C CAPACITOR	1µF,6.3V
		C6112	NCB30JK-105X	C CAPACITOR	1µF,6.3V
		C6113	NCB30JK-105X	C CAPACITOR	1µF,6.3V
		C6114	NCB30JK-105X	C CAPACITOR	1µF,6.3V
		C6115	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
		C6116	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
		C6117	NCBA1AK-333W	C CAPACITOR	0.033µF,10V
		C6118	NCBA1HK-561W	C CAPACITOR	560pF,50V
		C6119	NCBA1HK-272W	C CAPACITOR	0.0027µF,50V
		C6120	NCBA1HK-561W	C CAPACITOR	560pF,50V
		C6121	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
		C6123	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
		C6124	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
		C6125	NDCA1HJ-101W	C CAPACITOR	100pF,50V
		C6126	NCB31CK-473X	C CAPACITOR	0.047µF,16V
		C6127	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
		C6128	NCBA1AK-473W	C CAPACITOR	0.047µF,10V
		C6129	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
		C6130	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
		C6131	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
		C6132	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
		C6133	NCBA1HK-102W	C CAPACITOR	0.001µF,50V
		C6134	NCB21CK-105X	C CAPACITOR	1µF,16V
		C6201	NCB21CK-105X	C CAPACITOR	1µF,16V
		C6202	NCB10JK-106X	C CAPACITOR	10µF,6.3V
		C6203	NCBA1HK-102W	C CAPACITOR	0.001µF,50V
		C6204	NCBA1HK-561W	C CAPACITOR	560pF,50V
		C6205	NCB30JK-105X	C CAPACITOR	1µF,6.3V
		C6206	NCB21CK-105X	C CAPACITOR	1µF,16V
		C6207	NCB10JK-106X	C CAPACITOR	10µF,6.3V
		C6208	NCBA1EK-472W	C CAPACITOR	0.0047µF,25V
		C6209	NCB21CK-105X	C CAPACITOR	1µF,16V
		C6210	NCB10JK-106X	C CAPACITOR	10µF,6.3V
		C6211	NCBA1HK-102W	C CAPACITOR	0.001µF,50V
		C6212	NCB21CK-105X	C CAPACITOR	1µF,16V
		C6213	NCB30JK-105X	C CAPACITOR	1µF,6.3V
		C6214	NCBA1AK-683W	C CAPACITOR	0.068µF,10V
		C6215	NCB21CK-105X	C CAPACITOR	1µF,16V
		C6216	NCB30JK-105X	C CAPACITOR	1µF,6.3V
		C6217	NCB21CK-105X	C CAPACITOR	1µF,16V

MODEL	MARK	MODEL	MARK
GR-DV4000EK	A	GR-DV4000EY	C
GR-DV4000EX	B	GR-DV4000EZ	D

#	⚠	REF No.	PART No.	PART NAME, DESCRIPTION	
		C6218	NCB21CK-105X	C CAPACITOR	1µF,16V
		C6219	NCB11EK-105X	C CAPACITOR	1µF,25V
		C6220	NCB21CK-105X	C CAPACITOR	1µF,16V
		C6221	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
		C6223	NCB21CK-105X	C CAPACITOR	1µF,16V
		C6224	NCB11EK-105X	C CAPACITOR	1µF,25V
		C6225	NCB21CK-105X	C CAPACITOR	1µF,16V
		C6226	NCB21CK-105X	C CAPACITOR	1µF,16V
		L301	NQR0251-004X	FERRITE BEADS	
		L302	NQR0251-004X	FERRITE BEADS	
		L303	NQR0251-004X	FERRITE BEADS	
		L6101	NQL52EN-4R7X	INDUCTOR	4.7µH
		L6102	NQL52EN-4R7X	INDUCTOR	4.7µH
		L6201	NQLZ010-390X	INDUCTOR	39µH
		L6202	NQLZ011-390X	INDUCTOR	39µH
		L6203	NQLZ011-390X	INDUCTOR	39µH
		L6204	NQL144K-220X	P COIL	22µH
		L6205	NQL64EM-470X	INDUCTOR	47µH
		L6206	NQL64EM-470X	INDUCTOR	47µH
		L6207	NQLZ011-221X	INDUCTOR	220µH
		J6002	QNA0035-001	DC JACK,DC JACK	
		J301	QNS0078-001	3.5 JACK,AV JACK	
	⚠	B6001	QAB0040-001	LI BATTERY	
		CN601	QGB0404L1-80X	B TO B CONNE,TO MAIN	B TO B(1-80)
	⚠	F6001	NMFZ007-R50X-K	FUSE	0.5A,50V
	⚠	F6101	NMFZ007-2R0X-K	FUSE	2A,32V
	⚠	F6201	NMFZ007-1R25X-K	FUSE	1.25A,32V

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PRE/MDA BOARD ASSEMBLY<04>

	PW1	YB20946A	PR/MDA PWB ASSY,M3D4D6
	IC1601	BD6637KS	IC,MDA BD6637
	IC1701	LM358DR2-X	IC,REELAMP5V
	IC1702	BA10393F-XE	IC,REELSMT
	IC3501	JCY0132	IC
	IC3502	SN74AHC1G04K-X	IC
	Q1601	UMC3N-W	DIGI TRANSISTOR,LD ON
	D1602	DAP222-X	SI DIODE,LD OUT
	D1602	or MA132WA-X	SI DIODE
	D1603	DAP222-X	SI DIODE,LD ON
	D1603	or MA132WA-X	SI DIODE
	D1604	DAP222-X	SI DIODE,C.ERR-3V
	D1604	or MA132WA-X	SI DIODE
	R1601	NRSA63J-681X	MG RESISTOR 680Ω,1/16W
	R1602	NRSA63J-124X	MG RESISTOR 120kΩ,1/16W
	R1603	NRSA63J-472X	MG RESISTOR 4.7kΩ,1/16W
	R1604	NRSA63J-104X	MG RESISTOR 100kΩ,1/16W
	R1610	NRSA63J-471X	MG RESISTOR 470Ω,1/16W
	R1611	NRSA63J-471X	MG RESISTOR 470Ω,1/16W
	R1612	NRSA63J-104X	MG RESISTOR 100kΩ,1/16W
	R1613	NRSA63J-102X	MG RESISTOR 1kΩ,1/16W
	R1614	NRZ0072-R330X	MG RESISTOR 0.33Ω,1/4WF
	R1616	NRSA63D-332X	MG RESISTOR 3.3kΩ,1/16W
	R1617	NRZ0072-R330X	MG RESISTOR 0.33Ω,1/4WF
	R1620	NRSA63J-103X	MG RESISTOR 10kΩ,1/16W
	R1621	NRSA63J-103X	MG RESISTOR 10kΩ,1/16W
	R1622	NRSA63J-103X	MG RESISTOR 10kΩ,1/16W
	R1624	NRSA63D-183X	MG RESISTOR 18kΩ,1/16W
	R1625	NRSA63D-361X	MG RESISTOR 360Ω,1/16W
	R1629	NRSA63J-564X	MG RESISTOR 560kΩ,1/16W
	R1630	NRSA63J-0R0X	MG RESISTOR 0Ω,1/16W

#	⚠	REF No.	PART No.	PART NAME, DESCRIPTION	
		R1631	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
		R1635	NRSA63J-332X	MG RESISTOR	3.3kΩ,1/16W
		R1636	NRSA63J-123X	MG RESISTOR	12kΩ,1/16W
		R1637	NRSA63J-154X	MG RESISTOR	150kΩ,1/16W
		R1638	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
		R1639	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
		R1640	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
		R1641	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
		R1642	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
		R1648	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
		R1701	NRSA63J-823X	MG RESISTOR	82kΩ,1/16W
		R1702	NRSA63J-222X	MG RESISTOR	2.2kΩ,1/16W
		R1703	NRSA63J-222X	MG RESISTOR	2.2kΩ,1/16W
		R1704	NRSA63J-222X	MG RESISTOR	2.2kΩ,1/16W
		R1705	NRSA63J-222X	MG RESISTOR	2.2kΩ,1/16W
		R1706	NRSA63J-823X	MG RESISTOR	82kΩ,1/16W
		R1707	NRSA63J-103X	MG RESISTOR	10kΩ,1/16W
		R1708	NRSA63J-124X	MG RESISTOR	120kΩ,1/16W
		R1709	NRSA63J-103X	MG RESISTOR	10kΩ,1/16W
		R1710	NRSA63J-124X	MG RESISTOR	120kΩ,1/16W
		R1711	NRSA63J-102X	MG RESISTOR	1kΩ,1/16W
		R1712	NRSA63J-102X	MG RESISTOR	1kΩ,1/16W
		R3501	NRSA63J-471X	MG RESISTOR	470Ω,1/16W
		R3502	NRSA63J-104X	MG RESISTOR	100kΩ,1/16W
		R3503	NRSA63J-102X	MG RESISTOR	1kΩ,1/16W
		R3504	NRSA63D-241X	MG RESISTOR	240Ω,1/16W
		R3505	NRSA63D-241X	MG RESISTOR	240Ω,1/16W
		R3506	NRSA63D-241X	MG RESISTOR	240Ω,1/16W
		R3507	NRSA63D-241X	MG RESISTOR	240Ω,1/16W
		R3508	NRSA63J-223X	MG RESISTOR	22kΩ,1/16W
		R3511	NRSA63J-101X	MG RESISTOR	100Ω,1/16W
		C1601	NCB31EK-103X	C CAPACITOR	0.01µF,25V
		C1602	NBE20JM-106X	TA E CAPACITOR	10µF,6.3V
		C1603	NBE20JM-106X	TA E CAPACITOR	10µF,6.3V
		C1605	NCB31CK-104X	C CAPACITOR	0.1µF,16V
		C1606	NCB31HK-152X	C CAPACITOR	0.0015µF,50V
		C1607	NCB31CK-473X	C CAPACITOR	0.047µF,16V
		C1614	NBE20JM-106X	TA E CAPACITOR	10µF,6.3V
		C1618	NCB31HK-222X	C CAPACITOR	0.0022µF,50V
		C1619	NCB31HK-222X	C CAPACITOR	0.0022µF,50V
		C1620	NCB31HK-222X	C CAPACITOR	0.0022µF,50V
		C1621	NCB30JK-105X	C CAPACITOR	1µF,6.3V
		C1622	NCB31CK-223X	C CAPACITOR	0.022µF,16V
		C1623	NCB31CK-473X	C CAPACITOR	0.047µF,16V
		C1624	NCB31EK-103X	C CAPACITOR	0.01µF,25V
		C1625	NCS31HJ-101X	C CAPACITOR	100pF,50V
		C1626	NCB31HK-822X	C CAPACITOR	0.0082µF,50V
		C1627	NCB31HK-822X	C CAPACITOR	0.0082µF,50V
		C1628	NCB21CK-224X	C CAPACITOR	0.22µF,16V
		C1629	NBP41DM-106X	TA E CAPACITOR	10µF,20V
		C1630	NCB21CK-334X	C CAPACITOR	0.33µF,16V
		C1632	NBE20JM-106X	TA E CAPACITOR	10µF,6.3V
		C1633	NCB21CK-474X	C CAPACITOR	0.47µF,16V
		C1641	NCB21CK-474X	C CAPACITOR	0.47µF,16V
		C1701	NCB31CK-104X	C CAPACITOR	0.1µF,16V
		C1702	NCB31CK-104X	C CAPACITOR	0.1µF,16V
		C3501	NBE20JM-106X	TA E CAPACITOR	10µF,6.3V
		C3502	NBE20JM-106X	TA E CAPACITOR	10µF,6.3V
		C3503	NBE20JM-106X	TA E CAPACITOR	10µF,6.3V
		C3504	NCB31CK-473X	C CAPACITOR	0.047µF,16V
		C3505	NCB31CK-223X	C CAPACITOR	0.022µF,16V
		C3506	NCB21AK-105X	C CAPACITOR	1µF,10V
		C3507	NCB31EK-103X	C CAPACITOR	0.01µF,25V

MODEL	MARK	MODEL	MARK
GR-DV4000EK	A	GR-DV4000EY	C
GR-DV4000EX	B	GR-DV4000EZ	D

#	⚠	REF No.	PART No.	PART NAME, DESCRIPTION	
		C3508	NCB31EK-103X	C CAPACITOR	0.01µF,25V
		C3509	NCB31EK-103X	C CAPACITOR	0.01µF,25V
		C3510	NCB31CK-104X	C CAPACITOR	0.1µF,16V
		C3511	NCB31EK-103X	C CAPACITOR	0.01µF,25V
		C3512	NCB31CK-104X	C CAPACITOR	0.1µF,16V
		C3513	NCB31CK-104X	C CAPACITOR	0.1µF,16V
		C3514	NCB31CK-473X	C CAPACITOR	0.047µF,16V
		C3515	NCB31CK-473X	C CAPACITOR	0.047µF,16V
		C3516	NCB31CK-473X	C CAPACITOR	0.047µF,16V
		C3517	NCB31EK-103X	C CAPACITOR	0.01µF,25V
		C3518	NCB31EK-103X	C CAPACITOR	0.01µF,25V
		C3519	NCB31HK-102X	C CAPACITOR	0.001µF,50V
		C3520	NCB31EK-103X	C CAPACITOR	0.01µF,25V
		C3521	NCB31CK-104X	C CAPACITOR	0.1µF,16V
		C3522	NCB20JM-475X	C CAPACITOR	4.7µF,6.3V
		C3523	NCB31EK-103X	C CAPACITOR	0.01µF,25V
		C3524	NCB31EK-103X	C CAPACITOR	0.01µF,25V
		C3525	NCB20JM-475X	C CAPACITOR	4.7µF,6.3V
		C3526	NCB31EK-103X	C CAPACITOR	0.01µF,25V
		C3527	NDC31HJ-221X	C CAPACITOR	220pF,50V
		C3528	NCB31EK-103X	C CAPACITOR	0.01µF,25V
		L3501	NQR0006-001X	FERRITE BEADS	
		L3502	NQL402M-100X	INDUCTOR	10µH
		L3503	NQR0006-001X	FERRITE BEADS	
		L3504	NQR0006-001X	FERRITE BEADS	
		L3505	NQR0006-001X	FERRITE BEADS	
		SD1	LY33021-001A	S.COVER(P/R),PRE S-CASE	
		CN401	QGF0528F1-40X	FFC/FPC CONNE,MAIN1(PRE)	FFC/FPC(1-40)
		CN402	QGF0517F1-08X	FPC CONNE,HEAD	FFC/FPC(1-8)
		CN403	QGF0505F2-06X	FPC CONNE,LOADING	
		CN404	QGF0507F3-11X	FFC/FPC CONNE,DRUM	FFC/FPC(1-11)
		CN405	QGF0507F3-18X	FFC/FPC CONNE,CAPSTAN	FFC/FPC(1-18)
		CN406	QGF0503F4-16X	FFC/FPC CONNE,SENSOR	FFC/FPC(1-16)
		CN407	QGF0508F1-06X	FPC CONNE,ROT E SW	FFC/FPC(1-6)
		CN408	QGF0528F1-40X	FFC/FPC CONNE,MAIN2(MDA)	FFC/FPC(1-40)
	⚠	F1601	NMFZ007-R20X-K	FUSE,1608 UNREG	0.2A,50V
	⚠	F1602	NMFZ007-R50X-K	FUSE,1608 REG3V	0.5A,50V

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FRONT BOARD ASSEMBLY<05>

	PW2	YB20944B2	FRONT PWB ASS'Y,FRONT	
	IC501	PIC-37043T2	IR DETECT UNIT	
	Q501	DTC143XE-X	DIGI TRANSISTOR,TALLY	
	D501	SML-010LT-X	LED,TALLY	
	R501	NRSA63J-391X	MG RESISTOR	390Ω,1/16W
	R502	NRSA63J-470X	MG RESISTOR	47Ω,1/16W
	R509	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
	R511	NRSA63J-103X	MG RESISTOR	10kΩ,1/16W
	R512	NRSA63J-103X	MG RESISTOR	10kΩ,1/16W
	R513	NRSA63J-102X	MG RESISTOR	1kΩ,1/16W
	R518	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
	C502	NCB31CK-104X	C CAPACITOR	0.1µF,16V
	C503	NCB31CK-104X	C CAPACITOR	0.1µF,16V
	C504	NCB31CK-104X	C CAPACITOR	0.1µF,16V
	C505	NCB31CK-104X	C CAPACITOR	0.1µF,16V
	C506	NCB31HK-102X	C CAPACITOR	0.001µF,50V
	C507	NCB31HK-102X	C CAPACITOR	0.001µF,50V
	C508	NCB31HK-102X	C CAPACITOR	0.001µF,50V
	C509	NCB31HK-102X	C CAPACITOR	0.001µF,50V
	L501	NQR0251-004X	FERRITE BEADS	
	L502	NQR0251-004X	FERRITE BEADS	
	L503	NQR0251-004X	FERRITE BEADS	
	L504	NQR0251-004X	FERRITE BEADS	
	L505	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
	L506	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
	L507	NQR0269-013X	FERRITE BEADS	
	L508	NQR0269-013X	FERRITE BEADS	
	L509	NQR0269-013X	FERRITE BEADS	
	J501	QNS0147-003	3.5 JACK,HP	
	J502	QNS0168-001	3.5 JACK,EXT MIC	
	CN501	QGF0515F4-30X	FFC/FPC CONNE,TO MAIN	FFC/FPC(1-30)
	CN502	QGF0505F1-08X	FPC CONNE,TO SW	
	CN503	QGA1002F1-03X	W TO B CONNE,TO IN MIC	W TO B(1-3)

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BL BOARD ASSEMBLY<06>

	PW1	YB20947A-02	BL3.5 PWB ASS'Y	
	IC601	MIP824-W	IC,EL	
	IC611	BU9735K-X	IC,SUBLCD	
	Q7501	2SD1664/QR/-W	TRANSISTOR	
	Q7502	2SD1664/QR/-W	TRANSISTOR	
	Q7503	DTA144EE-X	DIGI TRANSISTOR	
	Q7504	2SC4617/QR/-X	TRANSISTOR	
	D7551	UDZ4.3B-X	Z DIODE	
	D7552	UDZ2.7B-X	Z DIODE	
	R601	NRSA63J-104X	MG RESISTOR	100kΩ,1/16W
	R611	NRSA63J-684X	MG RESISTOR	680kΩ,1/16W
	R612	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
	R7501	NRSA63J-102X	MG RESISTOR	1kΩ,1/16W
	R7502	NRSA63J-102X	MG RESISTOR	1kΩ,1/16W
	R7503	NRSA63J-102X	MG RESISTOR	1kΩ,1/16W
	R7506	NRSA63J-473X	MG RESISTOR	47kΩ,1/16W
	R7507	NRSA63J-473X	MG RESISTOR	47kΩ,1/16W
	R7551	NRSA63J-103X	MG RESISTOR	10kΩ,1/16W
	C601	NBE20JM-106X	TA E CAPACITOR	10µF,6.3V
	C602	NBE20JM-106X	TA E CAPACITOR	10µF,6.3V
	C603	NCB31HK-222X	C CAPACITOR	0.0022µF,50V
	C604	NCB31HK-222X	C CAPACITOR	0.0022µF,50V
	C611	NCB31HK-103X	C CAPACITOR	0.01µF,50V
	C7501	NCZ1016-120X	C CAPACITOR	12pF,2KV
	C7503	NFV91HJ-333X	MPPS CAPACITOR	0.033µF,50V
	C7504	NCB31EK-103X	C CAPACITOR	0.01µF,25V
	C7505	NBE20JM-106X	TA E CAPACITOR	10µF,6.3V
	C7551	NCB21CK-105X	C CAPACITOR	1µF,16V
	C7552	NCB21AK-105X	C CAPACITOR	1µF,10V
	C7553	NCB21AK-105X	C CAPACITOR	1µF,10V
	C7554	NCB21AK-105X	C CAPACITOR	1µF,10V
	C7555	NCB31CK-104X	C CAPACITOR	0.1µF,16V
	C7557	NDC31HJ-390X	C CAPACITOR	39pF,50V
	C7558	NDC31HJ-390X	C CAPACITOR	39pF,50V
	C7559	NCB31EK-103X	C CAPACITOR	0.01µF,25V
	C7560	NDC31HJ-390X	C CAPACITOR	39pF,50V
	C7561	NCB31EK-103X	C CAPACITOR	0.01µF,25V
	L601	NQLZ011-681X	INDUCTOR	680µH
	L602	NQL315K-100X	INDUCTOR	10µH
	L611	NQR0129-002X	FERRITE BEADS	
	L7501	NQLZ010-680X	INDUCTOR	68µH
	L7502	NQLZ010-220X	INDUCTOR	22µH
⚠	T7501	NQS0059-001X	SIGNAL SW TRANS	
	CN601	QGF0301F1-21X	FPC CONNE,FOR MONI1	FPC(1-21)
	CN602	QGF0505F1-24X	FPC CONNE,FOR LCD	FPC(1-24)
	CN603	QGF0508F1-15X	FPC CONNE,FOR S-LCD	FPC(1-15)

MODEL	MARK	MODEL	MARK
GR-DV4000EK	A	GR-DV4000EY	C
GR-DV4000EX	B	GR-DV4000EZ	D

# ⚠	REF No.	PART No.	PART NAME, DESCRIPTION	
	CN604	QGF0505F2-06X	FPC CONNE,FOR EL	
	CN605	QGF0301F1-21X	FPC CONNE,FOR MONI2	FPC(1-21)
	CN606	QGF0505F2-06X	FPC CONNE,FOR REV	
⚠	F601	NMFZ007-R20X-K	FUSE,EL	0.2A,50V
⚠	F7501	NMFZ007-R40X-K	FUSE	0.4A,50V

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MONITOR BOARD ASSEMBLY<07>

PW1	YB10420E-01	MONI PWB ASSY,123K_3.5P	
IC721	BA10358F-XE	IC,WB	
IC7101	CXA3272R	IC	
IC7102	———	IC,EEPROM	
IC7201	CXM3004R	IC	
IC7202	MM1613AN-X	IC	
Q721	RPM-22PB	PHOTO TRANSISTO	
Q7101	2SA1577/QR/-X	TRANSISTOR	
Q7102	DTC144EE-X	DIGI TRANSISTOR	
Q7102	or PDTC144EE-X	DIGI TRANSISTOR	
Q7102	or UN9213J-X	DIGI TRANSISTOR	
Q7102	or RN1104-X	DIGI TRANSISTOR	
Q7203	DTC144EE-X	DIGI TRANSISTOR	
Q7203	or PDTC144EE-X	DIGI TRANSISTOR	
Q7203	or UN9213J-X	DIGI TRANSISTOR	
Q7203	or RN1104-X	DIGI TRANSISTOR	
Q7204	2SA1577/QR/-X	TRANSISTOR	
R701	NRSA6AJ-272W	MG RESISTOR	2.7kΩ,1/16W
R702	NRSA6AJ-182W	MG RESISTOR	1.8kΩ,1/16W
R703	NRSA6AJ-152W	MG RESISTOR	1.5kΩ,1/16W
R706	NRSA6AJ-392W	MG RESISTOR	3.9kΩ,1/16W
R707	NRSA6AJ-272W	MG RESISTOR	2.7kΩ,1/16W
R708	NRSA6AJ-182W	MG RESISTOR	1.8kΩ,1/16W
R709	NRSA6AJ-152W	MG RESISTOR	1.5kΩ,1/16W
R721	NRSA6AJ-105W	MG RESISTOR	1MΩ,1/16W
R722	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R723	NRSA6AJ-333W	MG RESISTOR	33kΩ,1/16W
R724	NRSA6AJ-105W	MG RESISTOR	1MΩ,1/16W
R725	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R726	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R727	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R728	NRSA6AJ-302W	MG RESISTOR	3kΩ,1/16W
R731	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R732	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
R733	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
R734	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
R735	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
R736	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
R737	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
R738	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
R739	NRSA6AJ-220W	MG RESISTOR	22Ω,1/16W
R740	NRSA6AJ-220W	MG RESISTOR	22Ω,1/16W
R741	NRSA6AJ-220W	MG RESISTOR	22Ω,1/16W
R742	NRSA6AJ-220W	MG RESISTOR	22Ω,1/16W
R7101	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R7102	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R7103	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R7104	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R7105	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R7106	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R7107	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R7108	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R7109	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R7112	NRSA6AJ-100W	MG RESISTOR	10Ω,1/16W
R7113	NRSA6AJ-100W	MG RESISTOR	10Ω,1/16W
R7114	NRSA6AJ-100W	MG RESISTOR	10Ω,1/16W
R7116	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R7117	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R7118	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
R7119	NRSA6AJ-153W	MG RESISTOR	15kΩ,1/16W
R7120	NRSA6AJ-560W	MG RESISTOR	56Ω,1/16W
R7121	NRSA6AJ-560W	MG RESISTOR	56Ω,1/16W
R7122	NRSA6AJ-560W	MG RESISTOR	56Ω,1/16W
R7123	NRSA6AJ-101W	MG RESISTOR	100Ω,1/16W
R7124	NRSA6AJ-101W	MG RESISTOR	100Ω,1/16W
R7138	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R7139	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R7140	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R7201	NRSA6AJ-100W	MG RESISTOR	10Ω,1/16W
R7202	NRSA6AJ-100W	MG RESISTOR	10Ω,1/16W
R7203	NRSA6AJ-100W	MG RESISTOR	10Ω,1/16W
R7204	NRSA6AJ-100W	MG RESISTOR	10Ω,1/16W
R7214	NRSA6AJ-100W	MG RESISTOR	10Ω,1/16W
R7215	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R7216	NRSA6AD-433W	MG RESISTOR	43kΩ,1/16W
R7217	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R7218	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R7219	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R7220	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R7221	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R7222	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R7224	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R7225	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R7226	NRSA6AJ-122W	MG RESISTOR	1.2kΩ,1/16W
R7227	NRSA6AJ-101W	MG RESISTOR	100Ω,1/16W
R7228	NRSA6AJ-101W	MG RESISTOR	100Ω,1/16W
R7230	NRSA6AJ-101W	MG RESISTOR	100Ω,1/16W
R7231	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R7232	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R7233	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R7243	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R7244	NRSA6AJ-101W	MG RESISTOR	100Ω,1/16W
C701	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
C721	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
C722	NBE20JM-226X	TA E CAPACITOR	22µF,6.3V
C723	NCB30JK-105X	C CAPACITOR	1µF,6.3V
C724	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C725	NCBA1CK-223W	C CAPACITOR	0.022µF,16V
C726	NCBA1CK-223W	C CAPACITOR	0.022µF,16V
C727	NBE80JM-106X	TA E CAPACITOR	10µF,6.3V
C732	NBE80JM-106X	TA E CAPACITOR	10µF,6.3V
C7101	NBE91AM-335X	TA E CAPACITOR	3.3µF,10V
C7102	NCB31EK-682X	C CAPACITOR	6800pF,25V
C7106	NBP41EM-475X	TA E CAPACITOR	4.7µF,25V
C7107	NBE81AM-106X	TA E CAPACITOR	10µF,10V
C7108	NCB21AK-105X	C CAPACITOR	1µF,10V
C7109	NCB21AK-105X	C CAPACITOR	1µF,10V
C7110	NCB21AK-105X	C CAPACITOR	1µF,10V
C7111	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
C7115	NCB30JK-105X	C CAPACITOR	1µF,6.3V
C7116	NCBA1HK-222W	C CAPACITOR	0.0022µF,50V
C7117	NCB30JK-105X	C CAPACITOR	1µF,6.3V
C7118	NCB30JK-105X	C CAPACITOR	1µF,6.3V
C7119	NCB30JK-105X	C CAPACITOR	1µF,6.3V
C7120	NBP41EM-475X	TA E CAPACITOR	4.7µF,25V
C7121	NCB31CK-104X	C CAPACITOR	0.1µF,16V

MODEL	MARK	MODEL	MARK
GR-DV4000EK	A	GR-DV4000EY	C
GR-DV4000EX	B	GR-DV4000EZ	D

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
C7122	NBE20JM-226X	TA E CAPACITOR	22µF,6.3V
C7123	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C7124	NBE20JM-226X	TA E CAPACITOR	22µF,6.3V
C7125	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C7128	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
C7136	NDCA1HJ-390W	C CAPACITOR	39pF,50V
C7137	NDCA1HJ-390W	C CAPACITOR	39pF,50V
C7201	NBE41AM-106X	TA E CAPACITOR	10µF,10V
C7202	NCB21CK-105X	C CAPACITOR	1µF,16V
C7203	NCB21CK-105X	C CAPACITOR	1µF,16V
C7204	NCB21CK-105X	C CAPACITOR	1µF,16V
C7205	NBP41EM-475X	TA E CAPACITOR	4.7µF,25V
C7206	NCB21CK-105X	C CAPACITOR	1µF,16V
C7207	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
C7209	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C7210	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C7211	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C7213	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
C7214	NBE91AM-335X	TA E CAPACITOR	3.3µF,10V
C7215	NCBA1EK-682W	C CAPACITOR	0.0068µF,25V
C7216	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C7217	NCB21CK-105X	C CAPACITOR	1µF,16V
C7220	NBP41EM-475X	TA E CAPACITOR	4.7µF,25V
C7221	NCB31CK-104X	C CAPACITOR	0.1µF,16V
C7222	NBE20JM-226X	TA E CAPACITOR	22µF,6.3V
C7223	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C7224	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C7225	NBE20JM-226X	TA E CAPACITOR	22µF,6.3V
C7227	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
C7228	NCB30JK-105X	C CAPACITOR	1µF,6.3V
C7229	NCB30JK-105X	C CAPACITOR	1µF,6.3V
C7231	NBE90JM-106X	TA E CAPACITOR	10µF,6.3V
L721	NRSA02J-0R0X	MG RESISTOR	0Ω,1/10W
L722	NRSA02J-0R0X	MG RESISTOR	0Ω,1/10W
L731	NQR0006-001X	FERRITE BEADS	
L7102	NQL315K-220X	INDUCTOR	22µH
L7103	NQL315K-220X	INDUCTOR	22µH
L7104	NQL315K-220X	INDUCTOR	22µH
L7201	NQL315K-220X	INDUCTOR	22µH
L7202	NQL315K-220X	INDUCTOR	22µH
L7203	NQL315K-220X	INDUCTOR	22µH
L7205	NQL315K-100X	INDUCTOR	10µH
S701	NSW0198-001X	TACT SWITCH,FF	
S702	NSW0198-001X	TACT SWITCH,PB	
S703	NSW0198-001X	TACT SWITCH,REW	
S704	NSW0198-001X	TACT SWITCH,STOP	
S705	NSW0198-001X	TACT SWITCH,SELECT	
S706	NSW0198-001X	TACT SWITCH,SOUND	
S707	NSW0198-001X	TACT SWITCH,INFO	
S708	NSW0198-001X	TACT SWITCH,TITLE	
S709	NSW0198-001X	TACT SWITCH,INEX	
S711	NSW0099-001X	SLIDE SWITCH,DSC	
S713	NSW0200-001X	LEVER SWITCH,OPN3.5	
CN701	QGF0301F1-57X	FPC CONNE,FOR MAIN	FPC(1-57)
CN702	QGF0301F1-39X	FPC CONNE,FOR MONI	FPC(1-39)
CN703	QGF0507F5-20X	FFC/FPC CONNE,FOR VF	FFC/FPC(1-20)
CN704	QGA1001F1-02X	W TO B CONNE,SPEAKER	
CN705	NNZ0058-001X	SD CARD CONNE,SD/MMC	

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	

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SW BOARD ASSEMBLY<09>

PW1	YB20944A1	SW PWB ASS'Y,SW	
S901	NSW0198-001X	TACT SWITCH,FOCUS	
S902	NSW0198-001X	TACT SWITCH,BACKLIGHT	
CN901	QGF0505F1-08X	FPC CONNE,FOR FRONT	
CN902	QGA1002F1-02X	W TO B CONNE,FOR SENS	W TO B(1-2)
CN903	QGF0505F1-06X	FPC CONNE,FOR M.FCS	FPC(1-6)

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CCD BOARD ASSEMBLY<10>

PW1	YB10422A-01	CCD PWB ASS'Y,DV4000EK	
PW1	YB10422A-02	CCD PWB ASS'Y,DV4000EX	
Q5201	2SC3931/CD/-X	TRANSISTOR,CCD OUT	
Q5202	2SC4081/RS/-X	TRANSISTOR,CCD CTL	
Q5203	2SC3931/CD/-X	TRANSISTOR,CCD BIAS	
R5201	NRSA63J-222X	MG RESISTOR	2.2kΩ,1/16W
R5202	NRSA63J-122X	MG RESISTOR	1.2kΩ,1/16W
R5203	NRSA63J-103X	MG RESISTOR	10kΩ,1/16W
R5204	NRSA63J-123X	MG RESISTOR	12kΩ,1/16W
R5205	NRSA63J-103X	MG RESISTOR	10kΩ,1/16W
R5206	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
C5202	NBP41DM-106X	TA E CAPACITOR,DV4000EK	10µF,20V
C5202	NBZ0018-106X	TA E CAPACITOR,DV4000EX	10µF,20V
C5203	NCB21CK-104X	C CAPACITOR	0.1µF,16V
C5204	NBE21AM-106X	TA E CAPACITOR	10µF,10V
C5205	NCB31EK-104X	C CAPACITOR	0.1µF,25V
C5206	NCB21CK-104X	C CAPACITOR	0.1µF,16V
C5207	NCB31EK-222X	C CAPACITOR	2200pF,25V
C5211	NCB21CK-105X	C CAPACITOR	1µF,16V
L5201	NQL315K-100X	INDUCTOR	10µH

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STROBE BOARD ASSEMBLY<11>

	PW1	YB20949A-02	STROBE P.ASS'Y,11	
	IC6502	TC7SET08FU-X	IC(DIGITAL)	
	Q6501	2SB1462J/RS/-X	TRANSISTOR	
	Q6502	UN9211J-X	DIGI TRANSISTOR	
	Q6502	or DTC114EE-X	DIGI TRANSISTOR	
⚠	Q6503	2SB1124/ST/-X	CHIP TRANSISTOR	
	Q6504	2SD1628/FG/-X	TRANSISTOR	
	Q6506	CT25ASJ-8-X	POW TRANSISTOR	
	Q6801	CPH3314-X	MOS FET	
	Q6802	DTC144EE-X	DIGI TRANSISTOR	
	D6501	F1F16-X	SI DIODE	
	D6502	DA121-X	DIODE	
	D6503	F1SN4-X	SI DIODE	
	D6504	CRG02-X	SI DIODE	
	D6801	RB160M-30-X	SB DIODE	
	R6501	NRSA63J-3R9X	MG RESISTOR	3.9Ω,1/16W
	R6502	NRSA63J-4R7X	MG RESISTOR	4.7Ω,1/16W
	R6504	NRSA63J-471X	MG RESISTOR	470Ω,1/16W
	R6505	NRSA63J-222X	MG RESISTOR	2.2kΩ,1/16W
	R6506	NRSA63J-152X	MG RESISTOR	1.5kΩ,1/16W
	R6507	NRSA02J-106X	MG RESISTOR	10MΩ,1/10W
	R6508	NRVA63D-184X	CMF RESISTOR	180kΩ,1/16W
	R6511	NRSA63J-473X	MG RESISTOR	47kΩ,1/16W

MODEL	MARK	MODEL	MARK
GR-DV4000EK	A	GR-DV4000EY	C
GR-DV4000EX	B	GR-DV4000EZ	D

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
R6514	NRSA02J-105X	MG RESISTOR	1MΩ,1/10W
R6515	NRS181J-220X	MG RESISTOR	22Ω,1/8W
R6516	NRSA02J-104X	MG RESISTOR	100kΩ,1/10W
R6519	NRSA02J-106X	MG RESISTOR	10MΩ,1/10W
R6520	NRSA63J-330X	MG RESISTOR	33Ω,1/16W
R6527	NRSA63J-391X	MG RESISTOR	390Ω,1/16W
R6801	NRSA63J-104X	MG RESISTOR	100kΩ,1/16W
R6802	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
R6803	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
C6501	NBE41AM-336X	TA E CAPACITOR	33µF,10V
C6502	NBE41AM-226X	TA E CAPACITOR	22µF,10V
C6503	NCB31CK-104X	C CAPACITOR	0.1µF,16V
C6506	NCZ1008-333X	C CAPACITOR	0.033µF
C6508	NCB31CK-104X	C CAPACITOR	0.1µF,16V
C6509	NCZ1024-103X	C CAPACITOR	0.01µF,250V
C6510	NCZ1043-333X	C CAPACITOR	0.033µF,250V
C6512	QEZ0617-506	E CAPACITOR,by hand	50µF,300V
C6801	NBE41AM-226X	TA E CAPACITOR	22µF,10V
C6802	NBE41AM-226X	TA E CAPACITOR	22µF,10V
L6501	NQS0042-001X	SIGNAL SW TRANS	
L6502	NQL302N-100X	INDUCTOR	10µH
L6503	NQL044K-470X	P COIL	47µH
S6801	NSW0204-001X	PUSH SWITCH,POP OPEN	
WR1	QUB496-07A1A1	SIN TWIST WIRE,WIRE	
WR2	WJV0073-001B	E-PRIMARY WIRE,WIRE	
WR3	WJT0105-001A	E-CARD WIRE,FOR MAIN	
UN1	LY20993-001G	FLASH UNIT	
UN2	LY33400-001B	MIC ASSY	
OT1	LY33202-001A	HOLDER(PWB)	
OT2	LY30018-084A	SPECIAL SCREW,X2	
OT3	LY30018-0H2A	SPECIAL SCREW	
OT4	LY33200-001C	COVER(MIC)	
OT5	LY30029-0W4A	SPACER(A),SB WIRE	
OT6	LY30030-0E4A	SPACER(A),CONDENCER	
OT7	LY30029-030A	SPACER(A),FFC	
OT8	LY30029-0G5A	SPACER(A),B.P-CO(MIC	
CN6501	QGF0517F2-16X	FPC CONNE,MAIN	FPC(1-16)

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION